ORDER NO. AD9105141C7

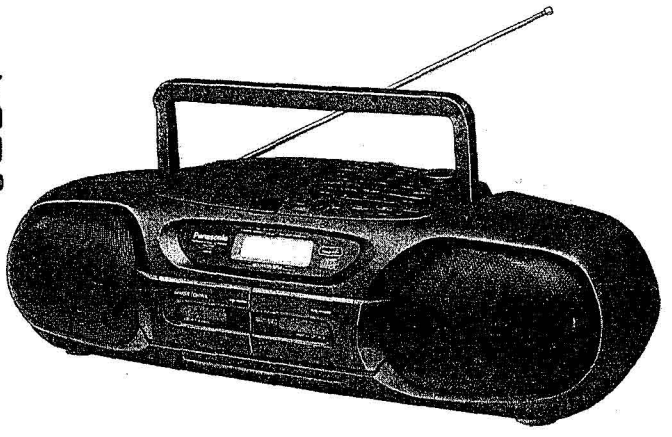
Service Manual

Portable Stereo CD System

Radio Cassette

RX-DT55

COMPACT disc DIGITAL AUDIO



Color

(K)	..... Black Type

Area

Country Code	Area	Color
(GC)	Third Region	(K)
(PX)	Far East-PX/Europe-PX	

TAPE DECK: RX-FD55 MECHANISM SERIES (AR300)
TRAVERSE DECK: NEW MECHANISM SERIES (S0DD110)

■ SPECIFICATIONS

General:

Power Requirement:	AC; 110~127 V/200~220 V/ 230~250 V, 50/60 Hz Battery; 15 V (10 R20/LR20, UM-1 batteries) Memory Back-up for Computer/ Clock; 6V (4 R6/LR6, UM-3 batteries)
Power Consumption:	43 W (AC only)
Power Output:	25 W×2...PMPO
Speaker:	12 cm×2 PM Dynamic speaker (2.7Ω) 2 cm×2 Ceramic Tweeter
Input:	MIX MIC; 2.5 mV/200~600Ω, Ø3.5
Outputs:	HEADPHONES; 32Ω, Ø3,5 CD OUT; 1.1 V (0 dB)
Dimensions:	677 (W)×193 (H)×249 (D) mm
Weight:	6.2 kg without batteries

Disc Player Section:

Sampling Frequency:	44.1 kHz
D-A Conversion:	16-bit linear
Beam Source:	Semiconductor laser (wavelength 780 nm)
No. of Channels:	2 channels, stereo
Frequency Range:	20~20,000 Hz (+1/−2 dB)
Dynamic Range:	90.5 dB
S/N Ratio:	97.5 dB
Wow and Flutter:	Unmeasurable

Radio Section:

Frequency Range:	FM; 87.5~108 MHz AM; 531~1602 kHz (9 kHz step) 530~1600 kHz (10 kHz step)
Intermediate Frequency:	FM; 10.7 MHz AM; 450 kHz
Sensitivity:	FM; 18 dB/50 mW output (−3 dB Limit Sens.) AM; 33 dB/m/50 mW output

Tape Deck Section:

Frequency Range:	30~16,000 Hz (with normal tape) 30~17,000 Hz (with CrO_2 tape)
Recording System:	AC bias, AC erase
Tape Speed:	4.8 cm/s (1⅞ ips)
Monitor System:	Variable sound monitor
Track System:	4-track 2-channel stereo recording and playback

Notes:

1. Weights and dimensions shown are approximate.
2. Design and specifications are subject to change without notice.

Panasonic

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CAUTION:
THIS PRODUCT UTILIZES A LASER.
USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

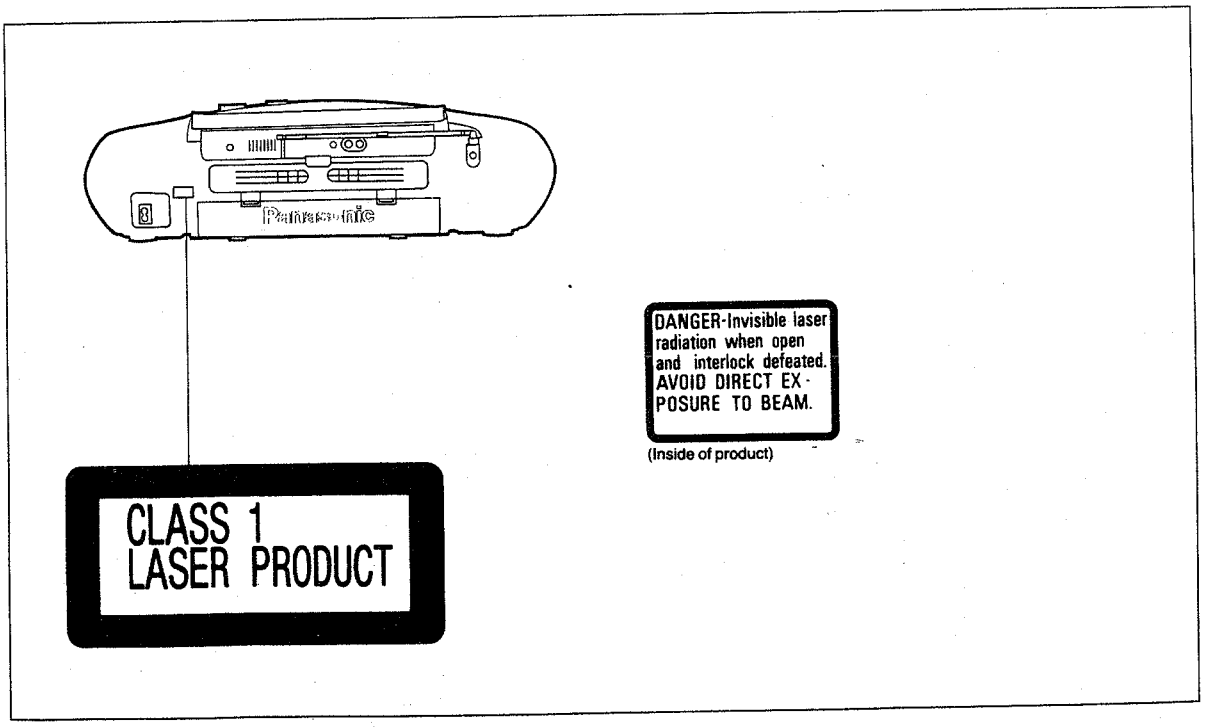
■ PRECAUTION OF LASER DIODE

CAUTION: This product utilizes a laser diode with the unit turned "on", invisible laser radiation is emitted from the pick up lens.

Wave length: 780 nm
Maximum output radiation power from pick up: 100 µW/VDE

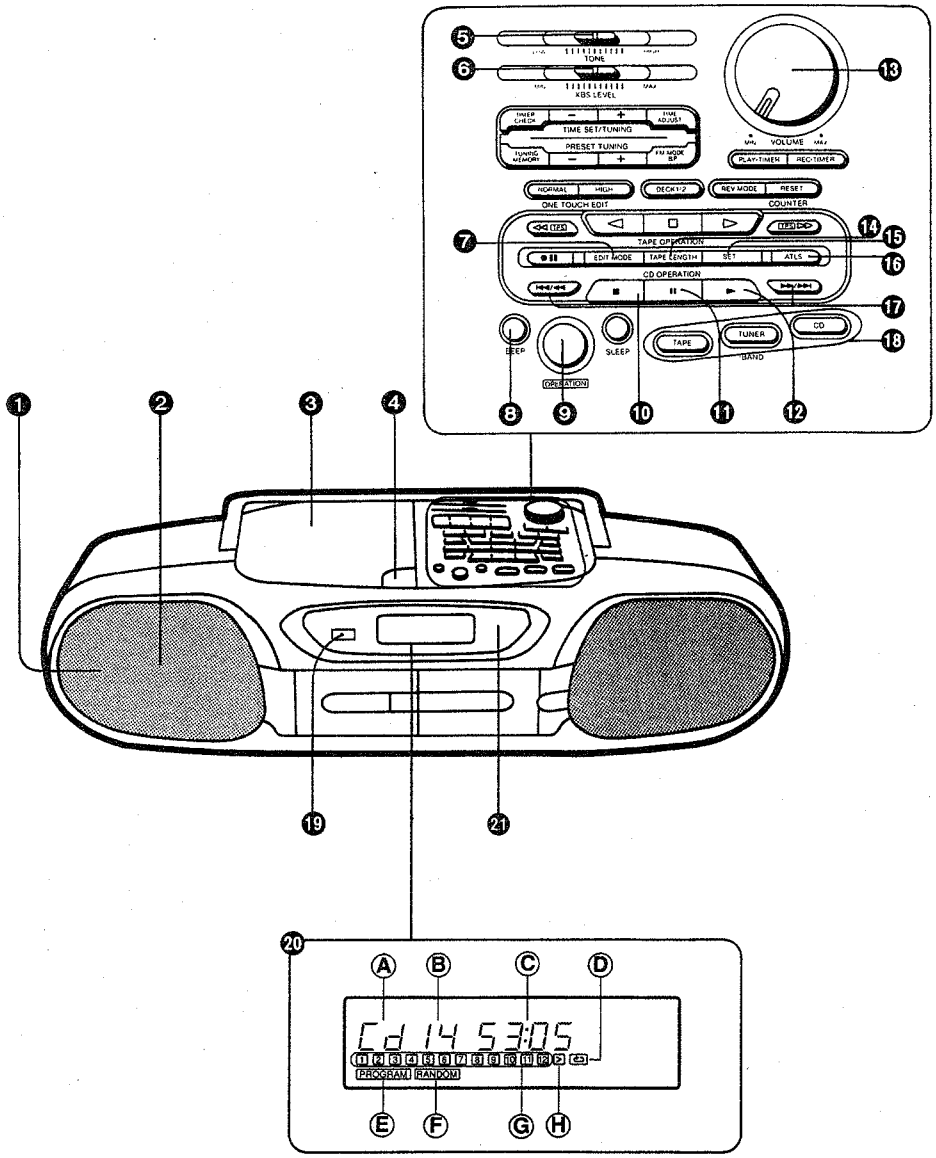
Laser radiation from the pick up lens is safety level, but be sure the followings:

1. Do not disassemble the optical pick up unit, since radiation from exposed laserd diode is dangerous.
2. Do not adjust the variable resistor on the pickup unit. It was already adjusted.
3. Do not look at the focus lens using optical instruments.
4. Recommend not to look at pick up lens for a long time.


Panasonic
DANGER-Invisible laser radiation when open and interlock defeated. AVOID DIRECT EXPOSURE TO BEAM.
(Inside of product)
CLASS 1
LASER PRODUCT

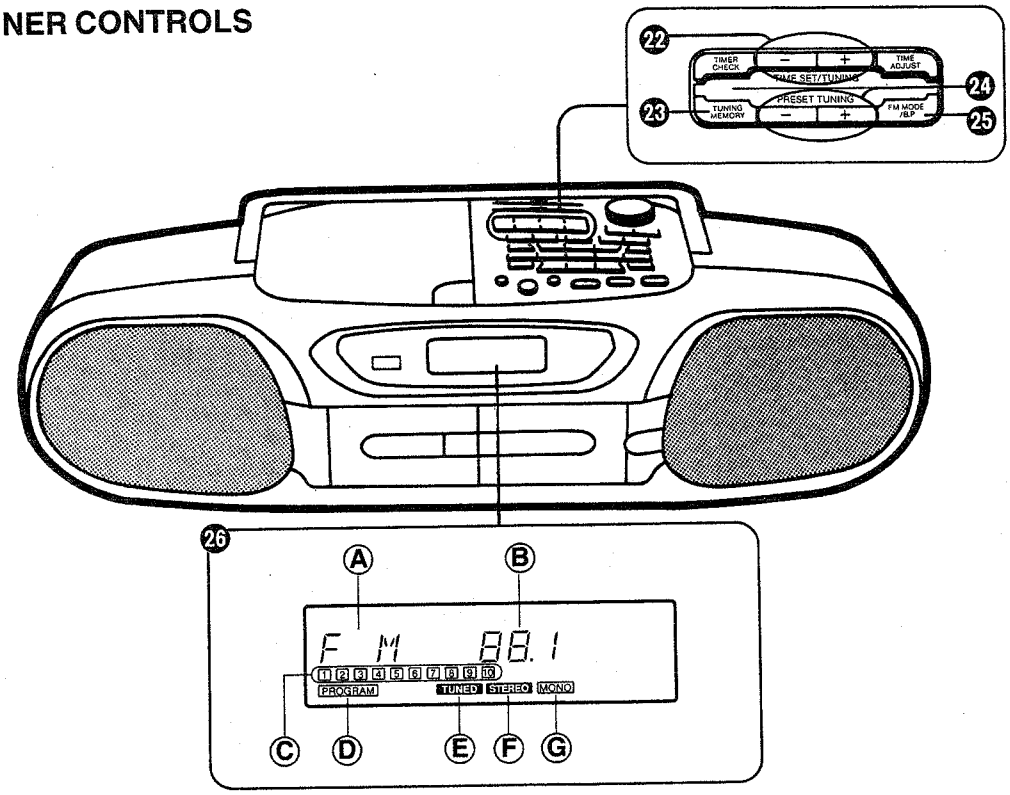
■ LOCATION OF CONTROLS

•CD/GENERAL CONTROLS



❶ Speakers (Tweeter) (2 cm)
❷ Speakers (Woofer) (12 cm, 2.7Ω)
❸ Disc holder
❹ CD eject button (▲ CD EJECT)
❺ Tone control (TONE)
❻ Extra bass system control (XBS LEVEL)
❼ Edit recording mode select button (EDIT MODE)
❽ Beep sound button (BEEP)
❾ Operation switch (OPERATION)
❿ Stop button (■)
⓫ Pause button (❚❚)
⓬ Play button (▶)
⓭ Volume control (VOLUME)
⓮ Tape length button (TAPE LENGTH)
⓯ Set button (SET)
⓰ Automatic tape level setting button (ATLS)
⓱ Skip/search button (⏮/◀◀ • ▶▶/⏭)
⓲ Mode select buttons (TAPE. TUNER/BAND. CD)
⓳ Remote control sensor
⓴ Display section
A: CD mode indicator (CD)
B: Track display
C: Playing time display
D: Repeat indicator (🔁)
E: Program indicator (PROGRAM)
F: Random indicator (RANDOM)
G: Music matrix
H: Over mark indicator (▷|)
㉑ Operation/Battery check/AC connection indicator (OPR-STDBY ⏻)

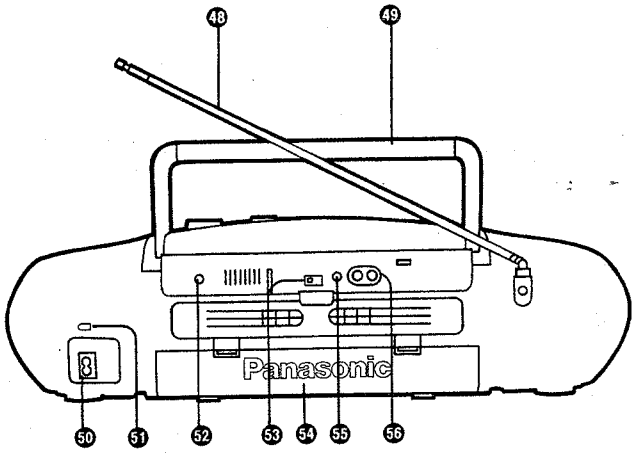
•TUNER CONTROLS



㉒ Tuning buttons (– TIME SET/TUNING +)
㉓ Tuning memory button (TUNING MEMORY)
㉔ Preset tuning buttons (PRESET TUNING)
㉕ FM mode/beat proof button (FM MODE/B.P)

㉖ Display section
A: Band indicator (FM/MW/LW)
B: Frequency display
C: Preset channel indicators
D: Program indicator (PROGRAM)
E: Tuning indicator (TUNER)
F: Stereo indicator (STEREO)
G: Monaural indicator (MONO)

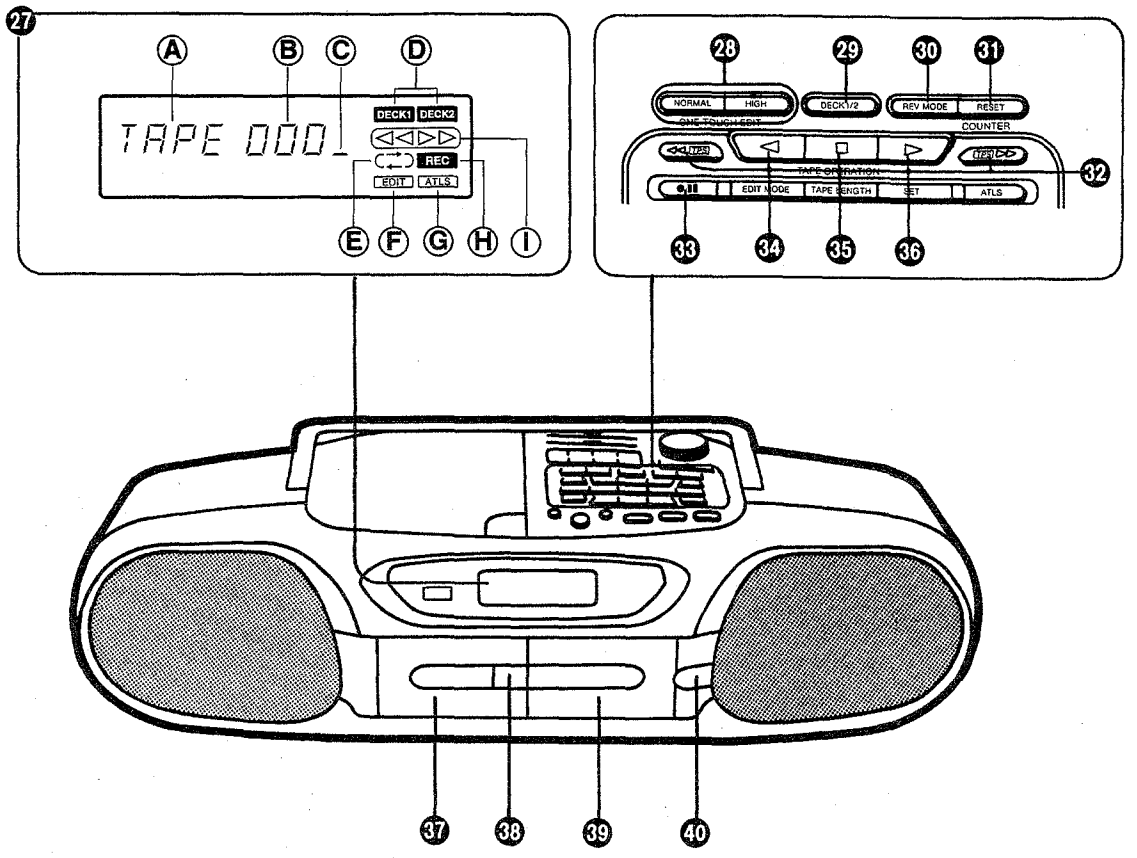
•REAR PANEL



㊽ Telescopic antenna
㊾ Handle
㊿ AC socket (AC IN ~)
(51) Voltage selector (VOLTAGE SELECTOR)
(52) Headphones jack (PHONES)
(Ø3.5, 32Ω)
(53) AM frequency step selector
[MW (AM) STEP]

(54) Battery compartment cover
(55) Mixing microphone jack (MIX. MIC)
(2.5 mV/200~600Ω, Ø3.5)
(56) CD output jacks (CD OUT)
(1.1 V)

•DECK CONTROLS



㉗ Display section
- A *Tape mode indicator* (TAPE)
- B Tape counter
- C Running indicator
- D Deck 1/2 indicators (DECK 1 DECK 2)
- E: Reverse mode indicator (⇄)
- F: *Edit indicator* (EDIT)
- G: Automatic tape level setting indicator (ATLS)
- H: Recording indicator (REC)

㉘ Edit recording buttons (ONE TOUCH EDIT)

㉙ Deck selector button (DECK 1/2)

㉚ Reverse mode select button (REV MODE)

㉛ Counter reset button (RESET)

㉜ Fast/Tape program sensor buttons (◀◀ TPS ▶▶)

㉝ Rec-pause button (● ❚❚)

㉞ Reverse-side playback button (◁)

㉟ Stop button (□)

㊱ Forward-side playback button (▷)

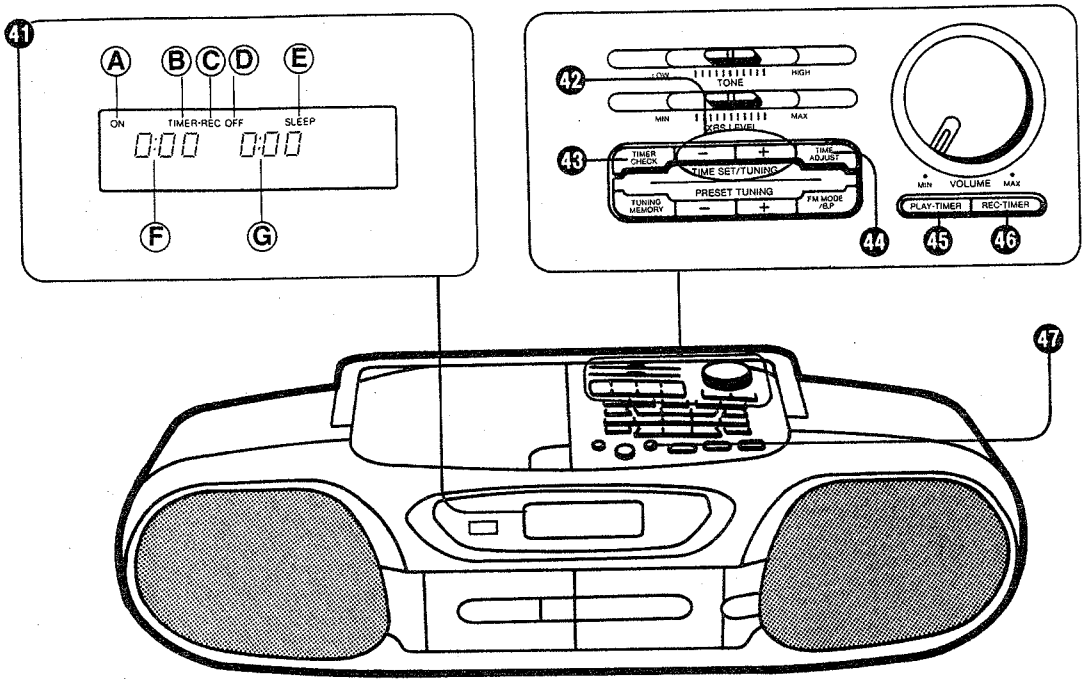
㊲ Deck 1 cassette compartment cover

㊳ Deck 1 cassette eject button (⏏ EJECT)

㊴ Deck 2 cassette compartment cover

㊵ Deck 2 cassette eject button (⏏ EJECT)

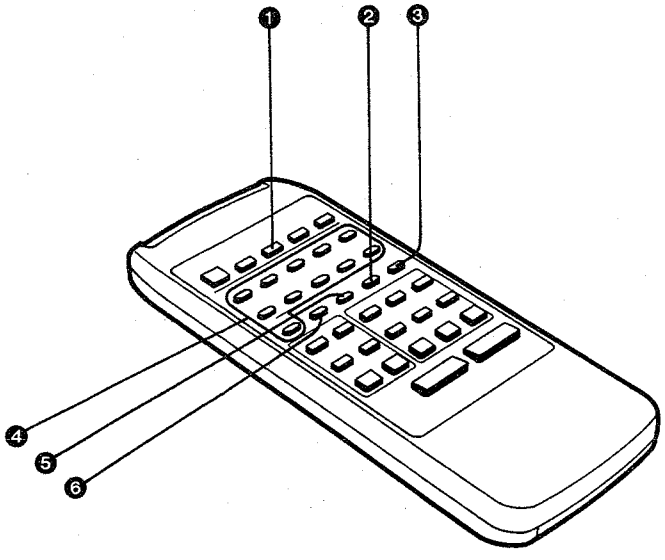
•TIMER CONTROLS



41 Display section
- A: Timer ON indicator (ON)
- B: Timer play indicator (TIMER)
- C: Timer recording indicator (TIMER-REC)
- D: Timer OFF indicator (OFF)
- E: Sleep timer indicator (SLEEP)
- F: Timer On time/Play mode indicator
- G: Timer OFF time/Time display

42 Time set buttons (– TIME SET/TUNING +)
43 Timer check button (TIMER CHECK)
44 Time adjust button (TIME ADJUST)
45 Timer play button (PLAY-TIMER)
46 Timer recording button (REC-TIMER)
47 Sleep timer button (SLEEP)

•REMOTE CONTROL



1 Display Button (DISPLAY)
Press this button when you wish to confirm the present time while listening to CD, radio and tape.

2 Random Button (RANDOM)
Press this button to let the microcomputer make a random selection of the sequence.

3 Repeat button (REPEAT)
Press this button to activate the repeat mode. The Repeat Indicator will appear.

4 Numeric Buttons (1–10/0, +10)
These buttons are used to specify the CD's track (1–10/0, +10), and select the preset channel of the tuner (1–10/0).

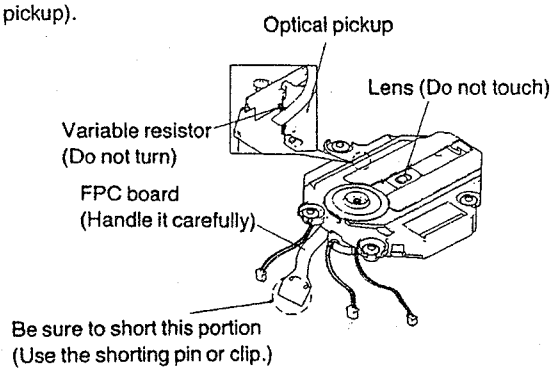
5 Cancel Button (CANCEL)
Press this button to cancel the program.

6 Program Button (PROGRAM)
Press this button for CD program-play and for preset memory of the tuner.

Note:
Please refer to "LOCATION OF CONTROLS" for the controls not described above.

■ HANDLING PRECAUTIONS FOR TRAVERSE DECK

The laser diode in the traverse deck (optical pickup) may break down due to potential difference caused by static electricity of clothes or human body.
So, be careful of electrostatic breakdown during repair of the traverse deck (optical pickup).



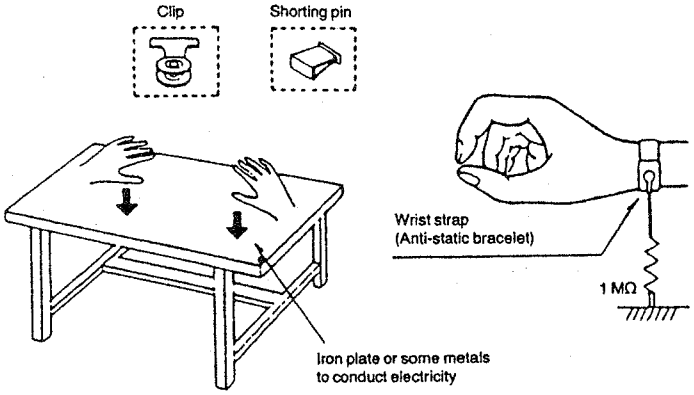
•Handling of traverse deck (optical pickup)

1. Do not subject the traverse deck (optical pickup) to static electricity as it is extremely sensitive to electrical shock.
2. To prevent the breakdown of the laser diode, an anti-static shorting pin is inserted into the flexible board (FPC board). When removing or connecting the short pin, finish the job in as short time as possible.
3. Take care not to apply excessive stress to the flexible board (FPC board).
4. Do not turn the variable resistor (laser power adjustment). It has already been adjusted.

•Grounding for electrostatic breakdown prevention

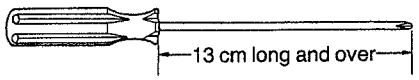
1. Human body grounding
   Use the anti-static wrist strap to discharge the static electricity from your body.
2. Work table grounding
   Put a conductive material (sheet) or steel sheet on the area where the traverse deck (optical pickup) is placed, and ground the sheet.

Caution:
The static electricity of your clothes will not be grounded through the wrist strap. So, take care not to let your clothes touch the traverse deck (optical pickup).

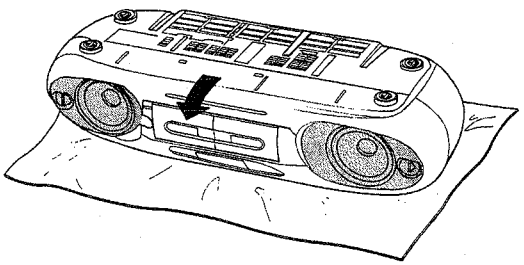


■ DISASSEMBLY INSTRUCTIONS

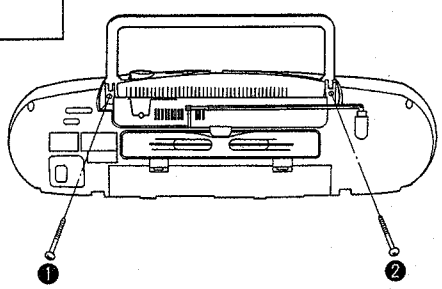
•Use a Phillips screwdriver whose blade is 13 cm long and over to remove screws fixing the rear cabinet.



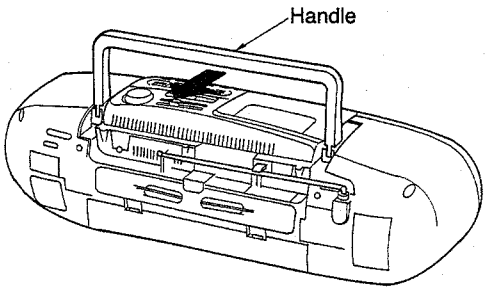
•Be sure to place the unit on soft cloth or similar material to prevent scratches when disassembling it.



Ref. No. 1	Removal of the Handle
Procedure 1	

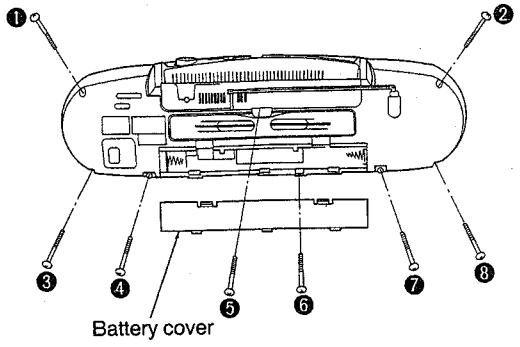


1. Remove 2 screws (❶, ❷).

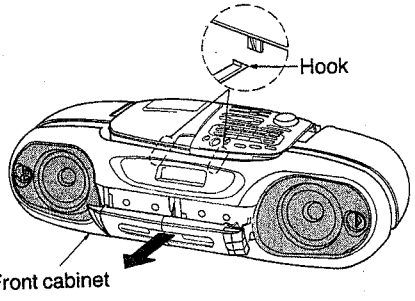


2. Slide out the handle in the direction of the arrow.

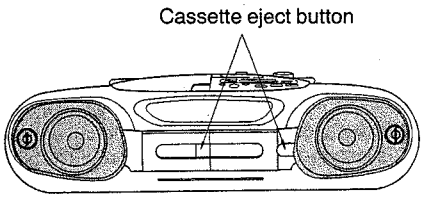
Ref. No. 2	Removal of the Front Cabinet
Procedure 1→2	



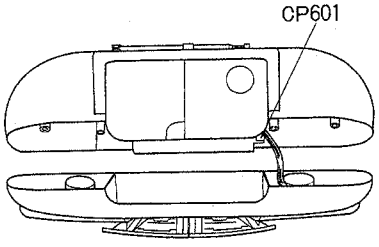
1. Remove the battery cover.
2. Remove 8 screws (❶~❽).



4. Remove 2 hooks.
5. Remove the front cabinet in the direction of arrow.

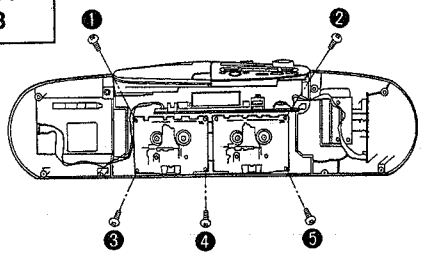


3. Press the cassette eject button and then open the cassette holder.

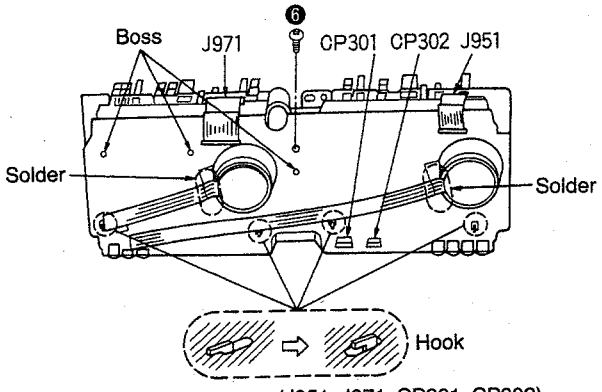


6. Release the connector (CP601).

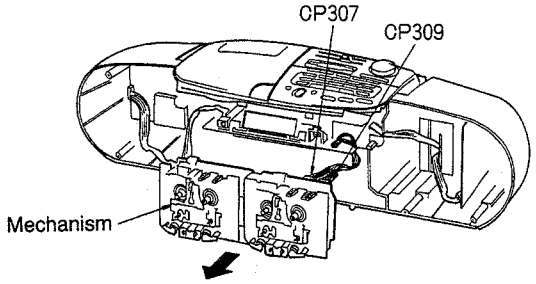
Ref. No. 3	Removal of the Mechanism
Procedure 1→2→3	



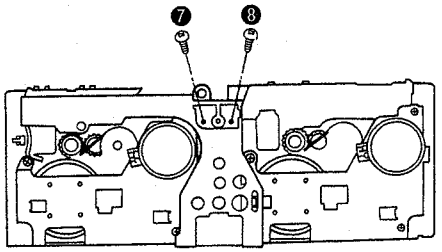
1. Remove 5 screws (❶~❺).



4. Release 4 connectors (J951, J971, CP301, CP302).
5. Resolder 2 solder points.
6. Remove the screw (❻).
7. Release 3 bosses.
8. Release 4 hooks.

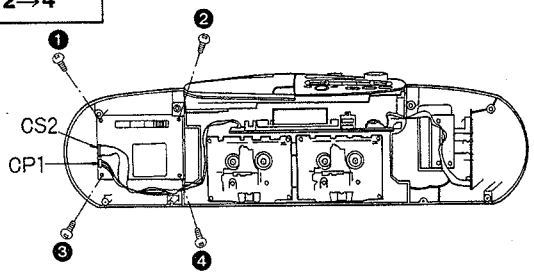


2. Pull out the mechanism.
3. Release 2 connector (CP307, CP309).



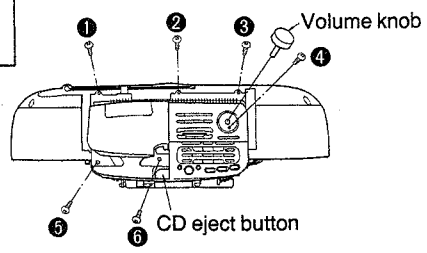
9. Remove 2 screws (❼, ❽).

Ref. No. 4	Removal of the Tuner P.C.B.
Procedure 1→2→4	

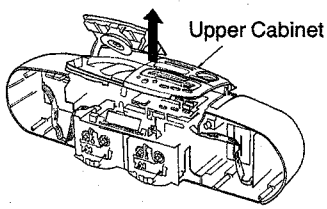


1. Remove 4 screws (❶~❹).
2. Release 2 connectors (CP1, CS2).

Ref. No. 5	Removal of the Upper Cabinet
Procedure 1→2→5	

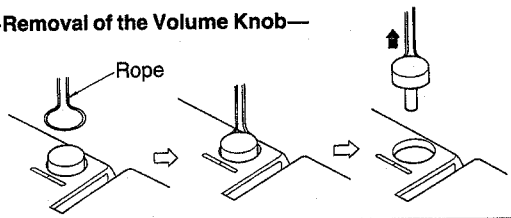


1. Press the CD eject button and then open the CD cover.
2. Pull out the volume knob.
3. Remove 6 screws (❶~❻).

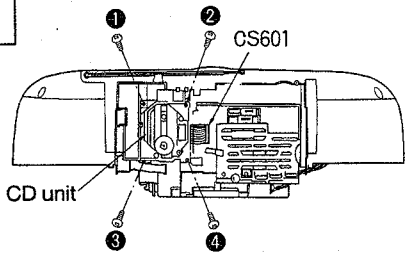


4. Remove the upper cabinet in the direction of arrow.

—Removal of the Volume Knob—

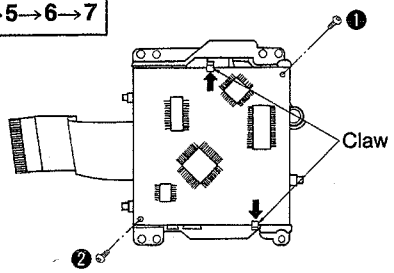


Ref. No. 6	Removal of the CD Unit
Procedure 1→2→5→6	

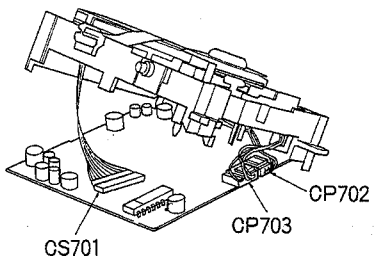


1. Remove 4 screws (❶~❹).
2. Remove the connector (CS601).
3. Lift up the CD unit.

Ref. No. 7	Removal of the CD P.C.B.
Procedure 1→2→5→6→7	

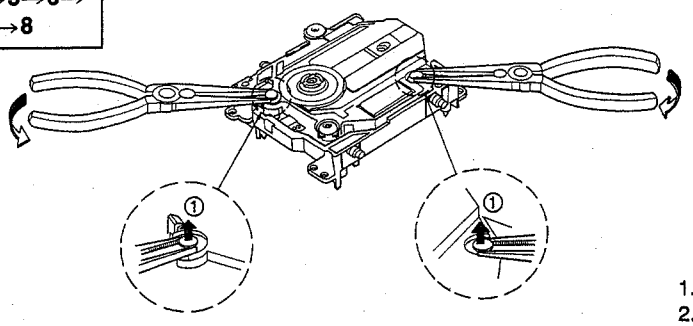


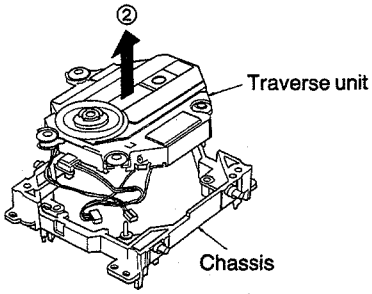
1. Remove 2 screws (❶, ❷).
2. Release 2 claws in the direction of arrows.



3. Release 3 connector (CS701, CP702, CP703).

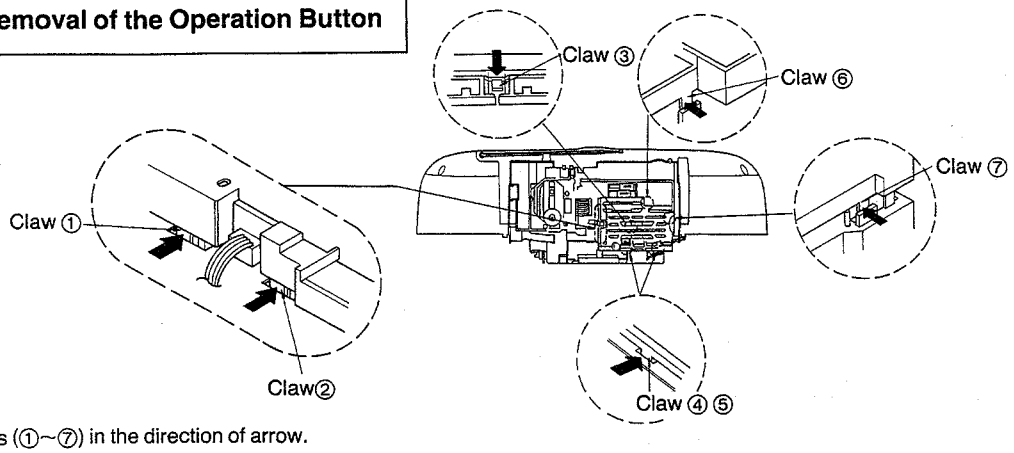
Ref. No. 8	Removal of the Traverse Unit
Procedure 1→2→5→6→ 7→8	





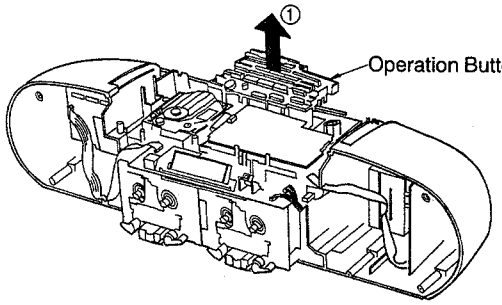
1. Remove 2 pin in the direction of arrows ①.
2. Remove the traverse unit in the direction of arrow ②.

Ref. No. 9	Removal of the Operation Button
Procedure 1→2→5→9	

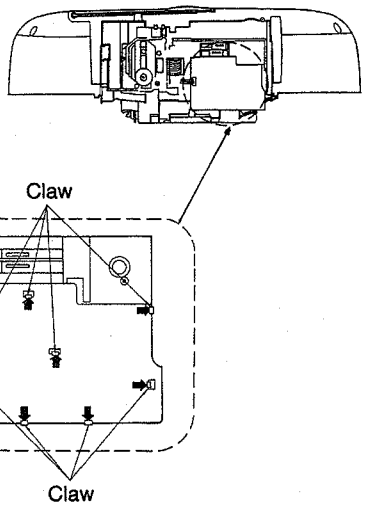


1. Release 7 claws (①~⑦) in the direction of arrow.

Ref. No. 10	Removal of the Operation P.C.B.
Procedure 1→2→5→9→10	

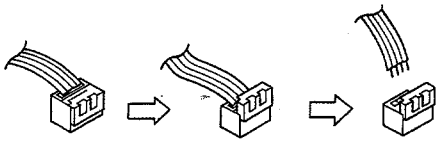


2. Remove the operation button in the direction of arrow ①.

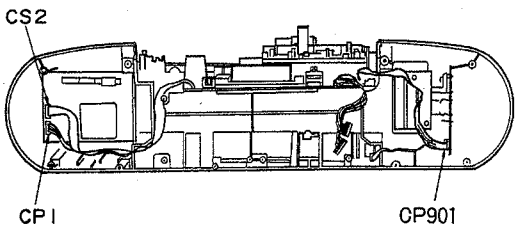


1. Release the connector (CM801).
2. Release 8 claws in the direction of arrows.

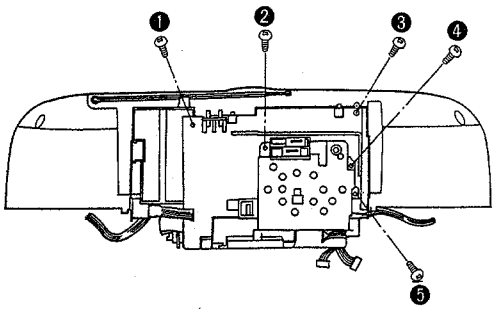
—Removal of the connector (CM801)—



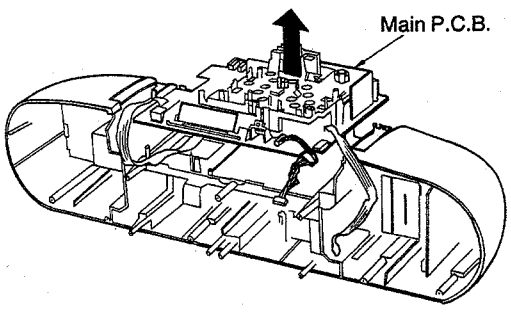
Ref. No. 11	Removal of the Main P.C.B.
Procedure 1→2→3→5→ 6→9→10→11	



1. Release 3 connector (CP1, CS2, CP901).

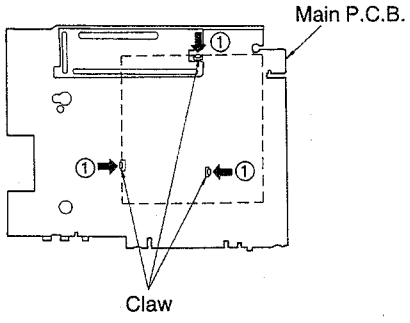


2. Remove 5 screws (❶~❺).

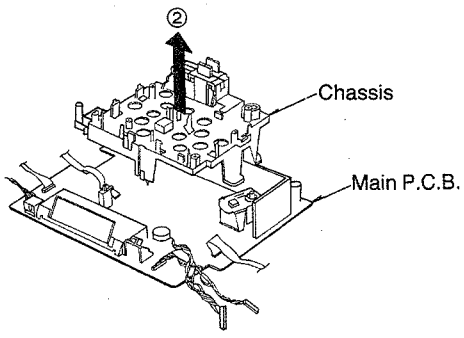


3. Remove the main P.C.B. in the direction of arrow.

Ref. No. 12	Removal of the Chassis
Procedure 1→2→3→5→ 6→0→10→11→ 12	

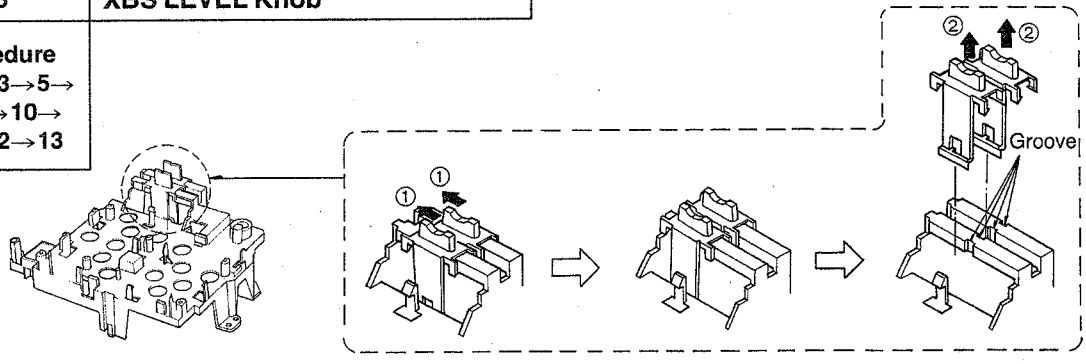


1. Release 3 claws in the direction of arrows ①.



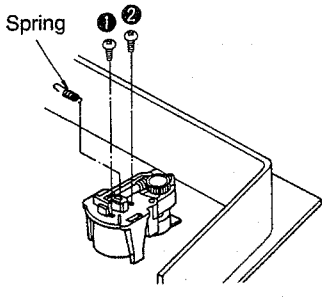
2. Remove the chassis in the direction of arrow ②.

Ref. No. 13	Removal of the TONE Knob and XBS LEVEL Knob
Procedure 1→2→3→5→ 6→9→10→ 11→12→13	

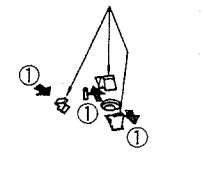


1. Slide 2 knobs in the direction of the arrow ①.
2. Remove 2 knobs in the direction of the arrows ②.

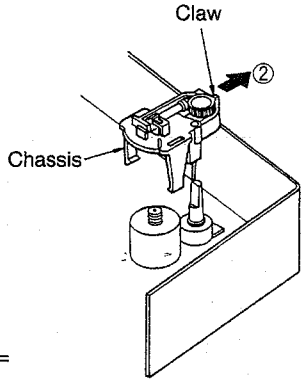
Ref. No. 14	Removal of the Volume Chassis
Procedure 1→2→3→5→ 6→9→10→ 11→12→14	



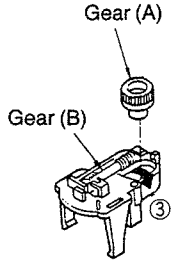
1. Remove the spring.
2. Remove 2 screws (❶, ❷).



3. Release 3 claws in the direction of arrows ①.



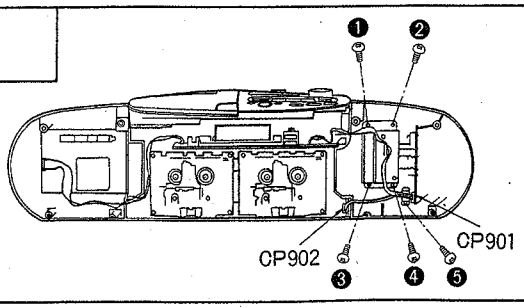
4. Lift up the chassis.
5. Release the claw in the direction of arrow ②.



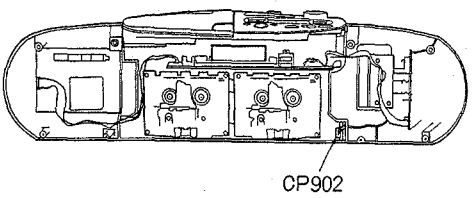
6. Remove the gear (A).
7. Remove the gear (B) in the direction of arrow ③.

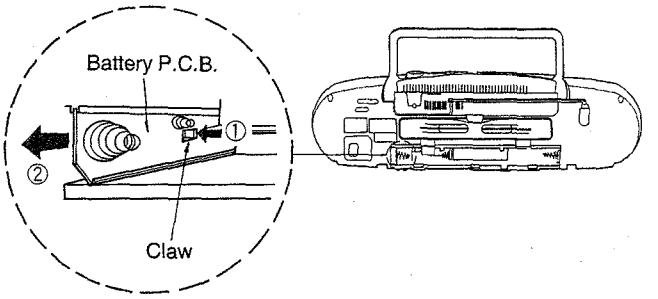
Ref. No. 15	Removal of the Power P.C.B.
Procedure 1→2→15	

1. Release 2 connectors (CP901, CP902).
2. Remove 5 screws (❶~❺).



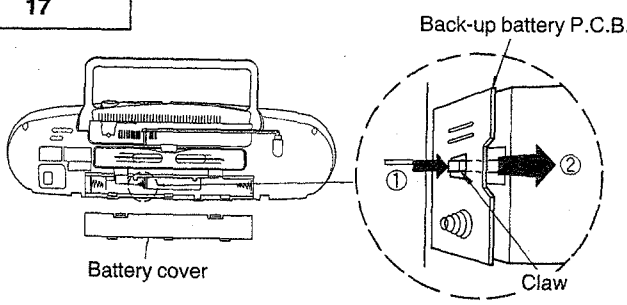
Ref. No. 16	Removal of the Battery P.C.B.
Procedure 1→2→16	





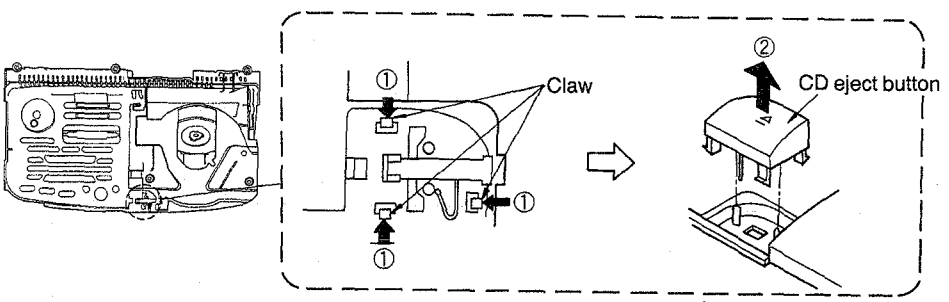
1. Release the connector (CP902).
2. Release the claw in the direction of the arrow ① and then remove the battery P.C.B. in the direction of arrow ②.

Ref. No. 17	Removal of the Back-up Battery P.C.B.
Procedure 17	



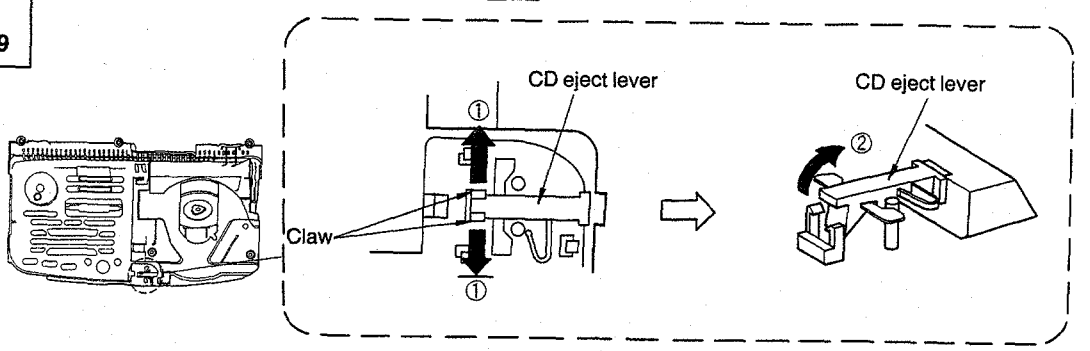
1. Remove the battery cover.
2. Release the claw in the direction of arrow ① and then remove the back-up battery in the direction of arrow ②.

Ref. No. 18	Removal of the CD Eject Button
Procedure 1→2→5→18	



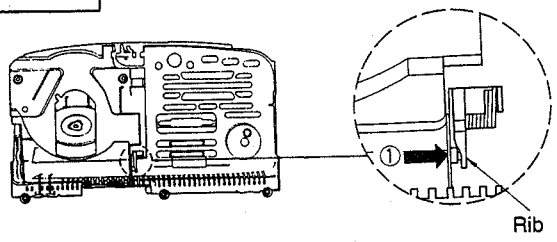
●Release 3 claws in the direction of arrows ① and then remove the CD eject button in the direction of arrow ②.

Ref. No. 19	Removal of the CD Eject Lever
Procedure 1→2→5→19	

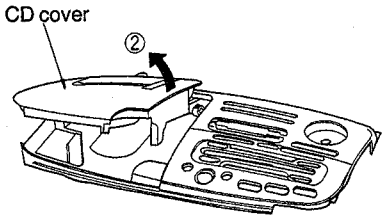


●Release 2 claws in the direction of arrows ① and then remove the CD eject lever in the direction of arrow ②.

Ref. No. 20	Removal of the CD cover
Procedure 1→2→5→20	

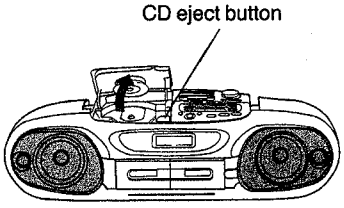


1. Release the rib in the direction of arrow ①.

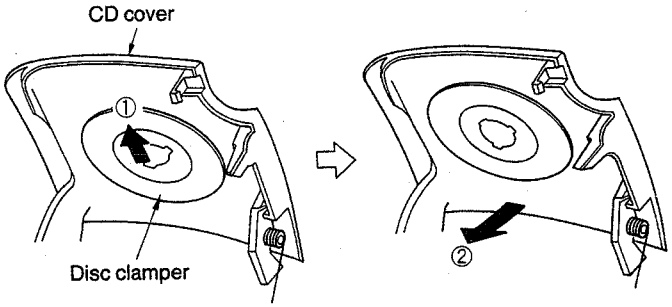


2. Remove the CD cover in the direction of arrow ②.

Ref. No. 21	Removal of the Disc Clamper
Procedure 21	

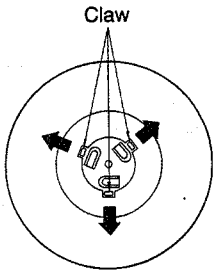


1. Press the CD eject button and then open the CD cover.

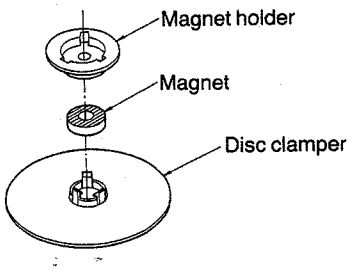


2. Slide the disc clamper in the direction of arrow ① and then remove the disc clamper in the direction of arrow ②.

Ref. No. 22	Removal of the Magnet
Procedure 21→22	

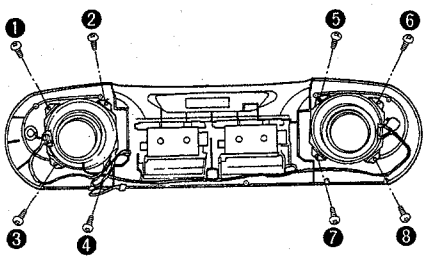


1. Release 3 claws in the direction of arrows.



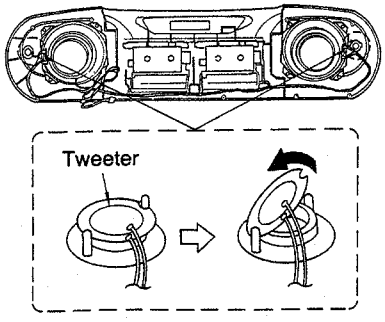
2. Remove the magnet holder.

Ref. No. 23	Removal of the Woofer Speaker
Procedure 1→2→23	



●Remove 8 screws (❶~❽).

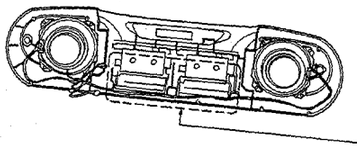
Ref. No. 24	Removal of the Tweeter Speaker
Procedure 1→2→24	



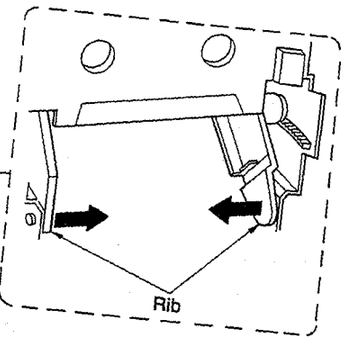
●Remove the tweeter in the direction of arrow.

Ref. No. 25 — **Removal of the Cassette Holder**

Procedure 1→2→25

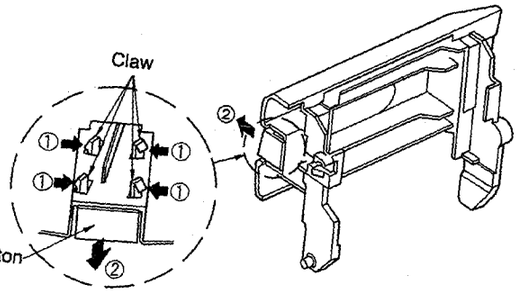


•Release 2 ribs in the direction of the arrows.



Ref. No. 26 — **Removal of the Cassette Eject Button**

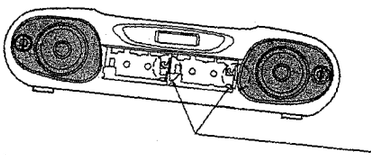
Procedure 1→2→25→26



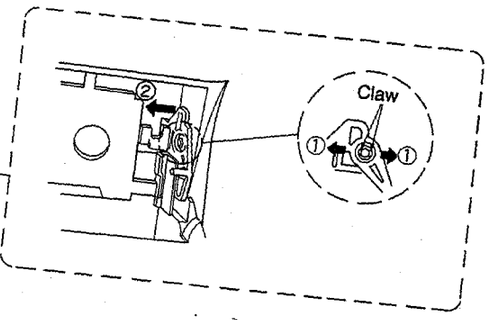
•Release 4 claws in the direction of arrows ① and then remove the cassette eject button in the direction of arrow ②.

Ref. No. 27 — **Removal of the Cassette Eject Lever**

Procedure 1→2→25→27

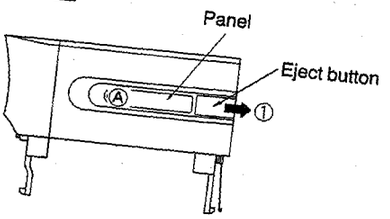


•Release 2 claws in the direction of arrows ① and then remove the cassette eject lever in the direction of arrow ②.



Ref. No. 28 — **Removal of the Cassette Holder Panel (Deck 1)**

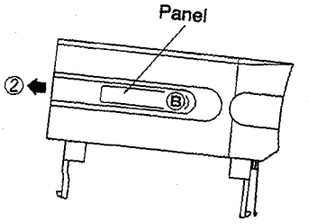
Procedure 1→2→25→28



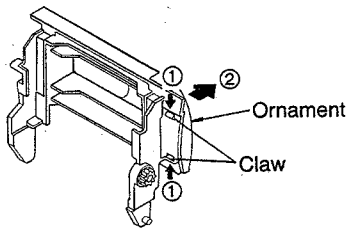
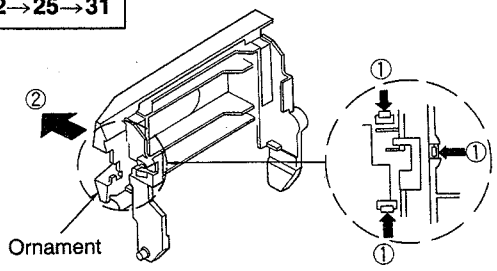
1. Press the eject button.
2. Press the panel (Ⓐ position) and then remove the panel in the direction of arrow ①.

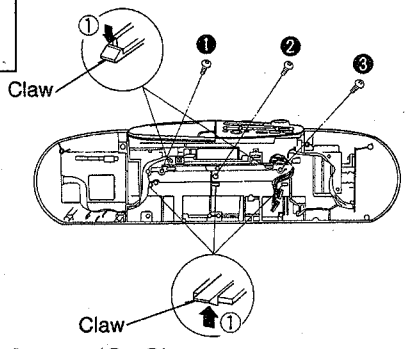
Ref. No. 29 — **Removal of the Cassette Holder Panel (Deck 2)**

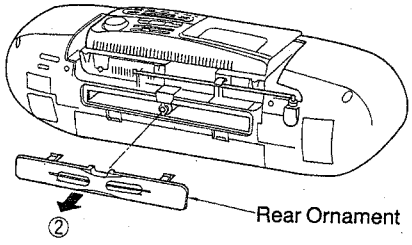
Procedure 1→2→25→29



•Press the panel (Ⓑ position) and then remove the panel in the direction of arrow ②.

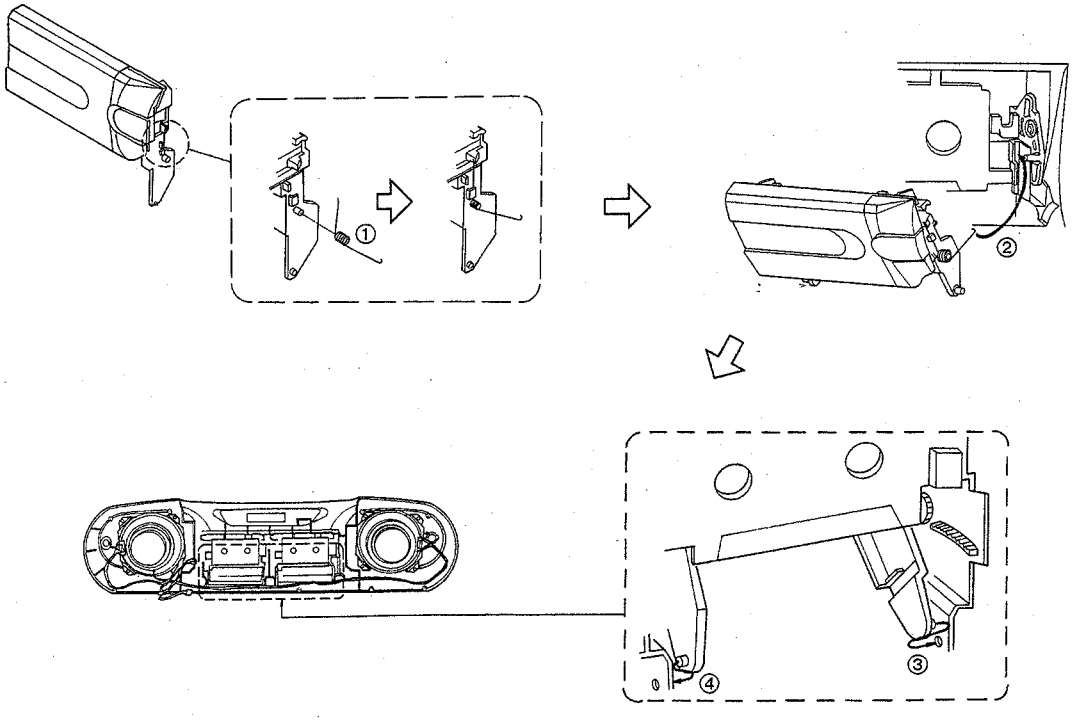
Ref. No. 30	Removal of the Cassette Holder Ornament (Deck 1)	Ref. No. 31	Removal of the Cassette Holder Ornament (Deck 2)
Procedure 1→2→25→30		Procedure 1→2→25→31	
•Release 2 claws in the direction of arrows ① and then remove the ornament in the direction of arrow ②.		•Release 3 claws in the direction of arrows ① and then remove the ornament in the direction of arrow ②.	

Ref. No. 32	Removal of the Rear Ornament
Procedure 1→2→3→32	
1. Remove 3 screws (❶~❸). 2. Release 5 claws in the direction of arrows ①.	

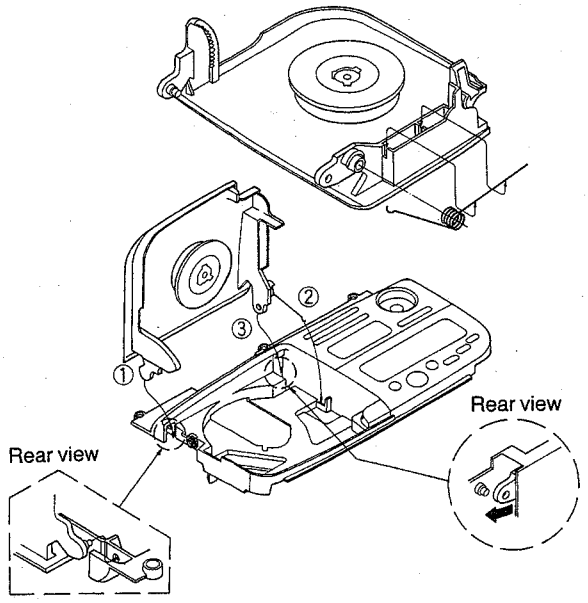


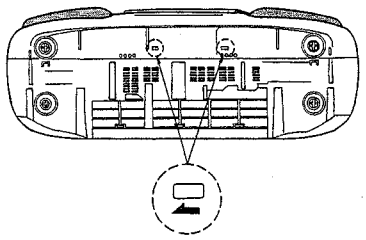
3. Remove the rear ornament in the direction of arrow ②.

■ CASSETTE HOLDER ASSEMBLY



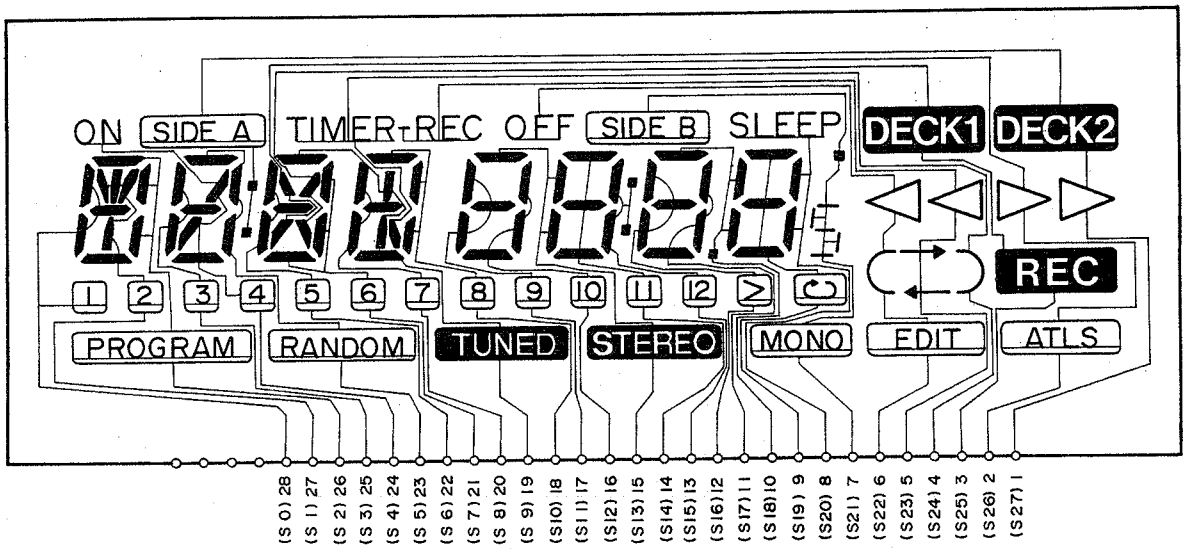
■ CD COVER ASSEMBLY

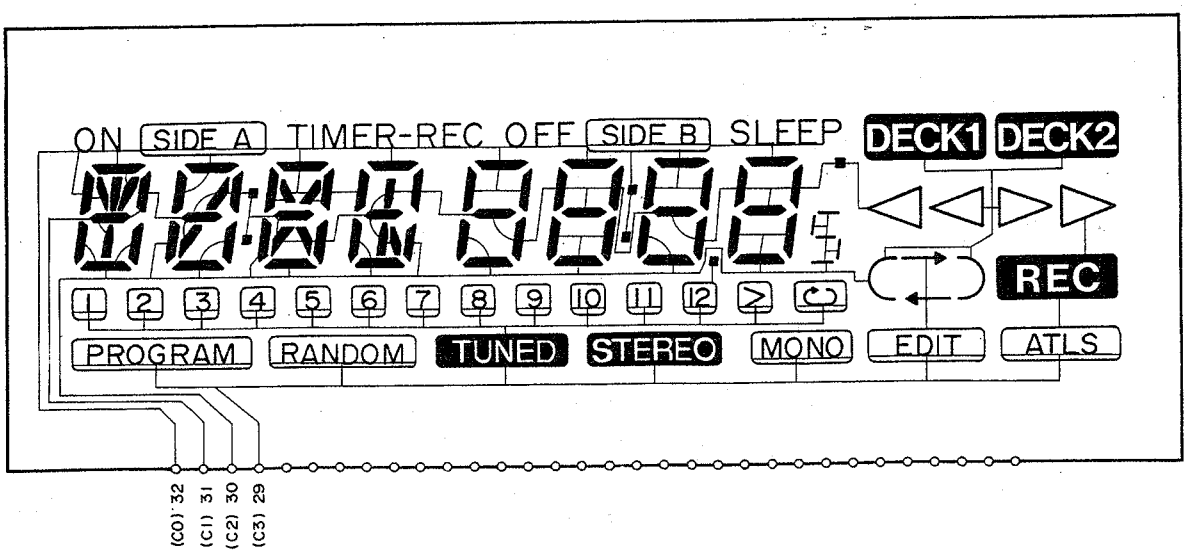




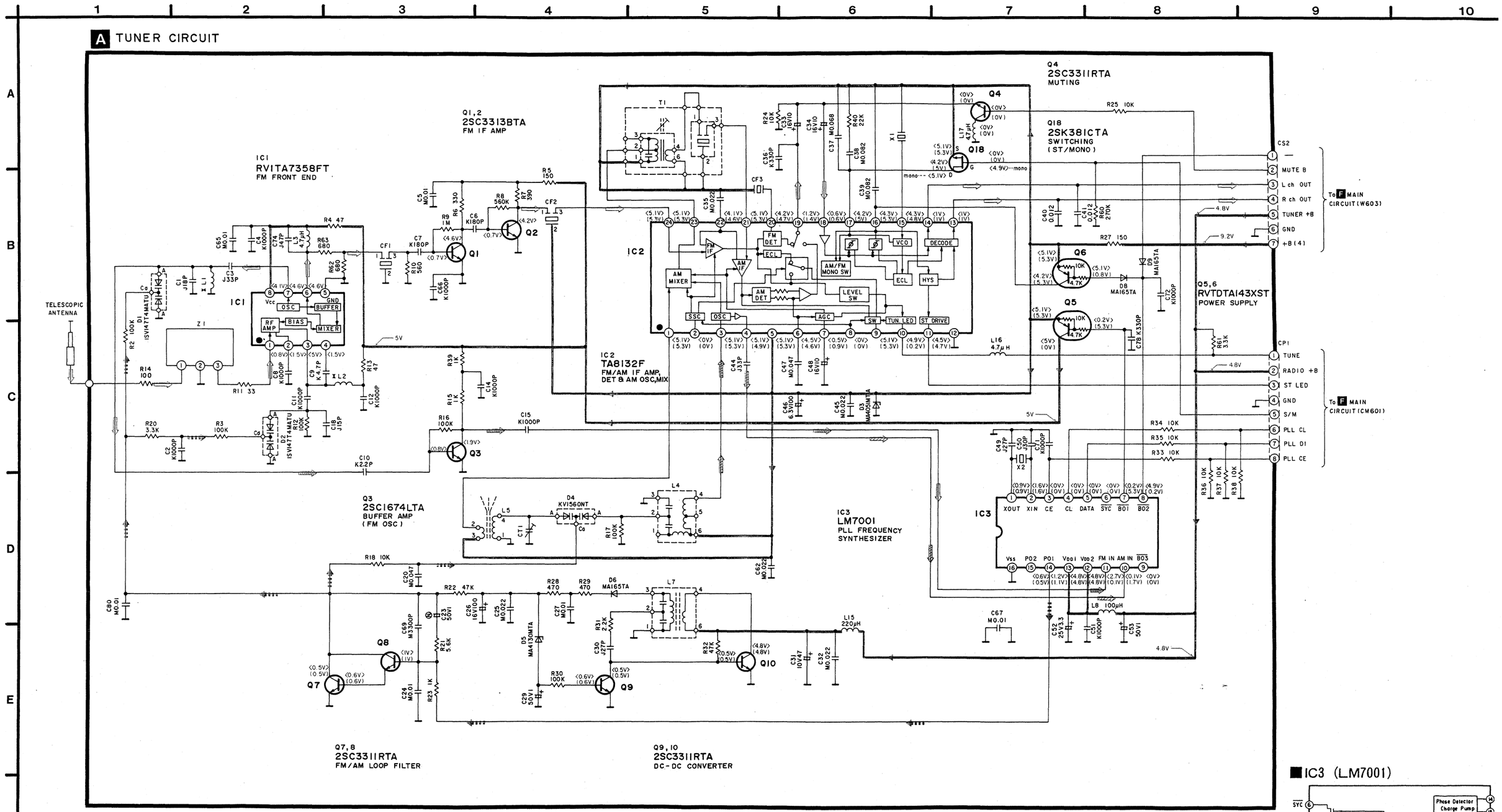
When the tape is caught in the pinch roller, etc.
Release the tape by turning the pulley on the motor with the screwdriver in the direction of the arrow.

■ LIQUID CRYSTAL DISPLAY (LCD)





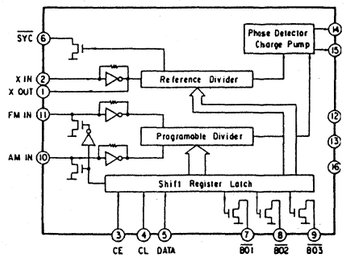
■ SCHEMATIC DIAGRAM •TUNER AND CD CIRCUIT (Parts list on pages 57~63.)



Notes:
(for Tuner circuit and CD circuit)
- S701: Rest switch.
- VR701: Best eye adjustment VR.
- DC Voltage measurements are taken with electronics voltmeter.
  The negative terminal of the battery provides negative meter connection point.
  ( )...AM < >...FM (( ))...CD
- **This shematic diagram may be modified at any time with the development of new technology.**

: CD Signal Line
: FM Signal Line
: FM OSC Signal Line
: AM OSC Signal Line
: FM/AM Vcap Control Signal Line
: +B Line

■ IC3 (LM7001)



10 11 12 13 14 15 16 17 18 19

B CD CIRCUIT

OPTICAL PICKUP CIRCUIT

CS701 GND PD LD +B RF +B A1 A4 A2 A3 GND NC TD- TD+ FD- FD+

TRACKING COIL

FOCUS COIL

Q701 2SB709STW LASER POWER DRIVE

IC701 AN8800SCE2 SERVO AMP

IC704 MN6650 DIGITAL SERVO PROCESSOR

IC705 MN6475-TI DIGITAL FILTER & D/A CONVERTER

IC706 MN6626 DIGITAL SIGNAL PROCESSOR

IC702 TCA0372DM2R SPINDLE MOTOR DRIVE

IC703 AN8377N TRAVERSE MOTOR DRIVE/ COIL DRIVE

SPINDLE MOTOR

TRAVERSE MOTOR

TEST CONNECTOR CP701 ARF VREF

TP702 TP703

CP702 S701 (REST)

CS702 REST SW, SMCK, /RST, STAT, D.MUTE, SUBQ, SQCK, BLKCK, /TLOCK, /FLOCK, SENSE, MLD, M DATA, MCLK, P. GND, +B(1), TX, LD SW, D. GND, +B(2), Rch OUT, A.GND, Lch OUT

To F MAIN CIRCUIT(CS601)

■ SCHEMATIC DIAGRAM •MAIN, OPERATION AND POWER SUPPLY CIRCUIT (Parts list on pages 57~63.)

F MAIN CIRCUIT

IC609
S8053HNB-T
RESET SIGNAL GENERATOR

Q602
2SA1309RTA
POWER SUPPLY(REMOTE)

Q603
UN421FTA
POWER SUPPLY CONT.

IC601
MN187241ORRY
SYSTEM CONTROL/ LCD DRIVE

LCD1(RSL5038)
LCD DISPLAY

IC603
TA2011S
MIC AMP

JK603
MIX MIC
2.5mV(200~600Ω)
(φ3.5)

IC607, 608
MC14066BCP
INPUT SELECTOR

Z601
RCD6P1U52YG
(REMOTE SENSOR)

Q601
UN4217TA
BUFFER AMP (BEEP)

Q604
UN4211TA
LED DRIVE

Q601
LN0215Z9P
(OPR.STANDBY)

Q605
UN4219TA
MUTING CONT.

Q403,503
UN4213TA
ATTENUATOR (ATLS)

IC602
BA6418N
MOTOR DRIVE

Q401,404,501,504
2SC3312RTA
TONE/XBS AMP

Q606
2SB1393AU
POWER SUPPLY

IC604
BA3920
POWER SUPPLY CONTROL

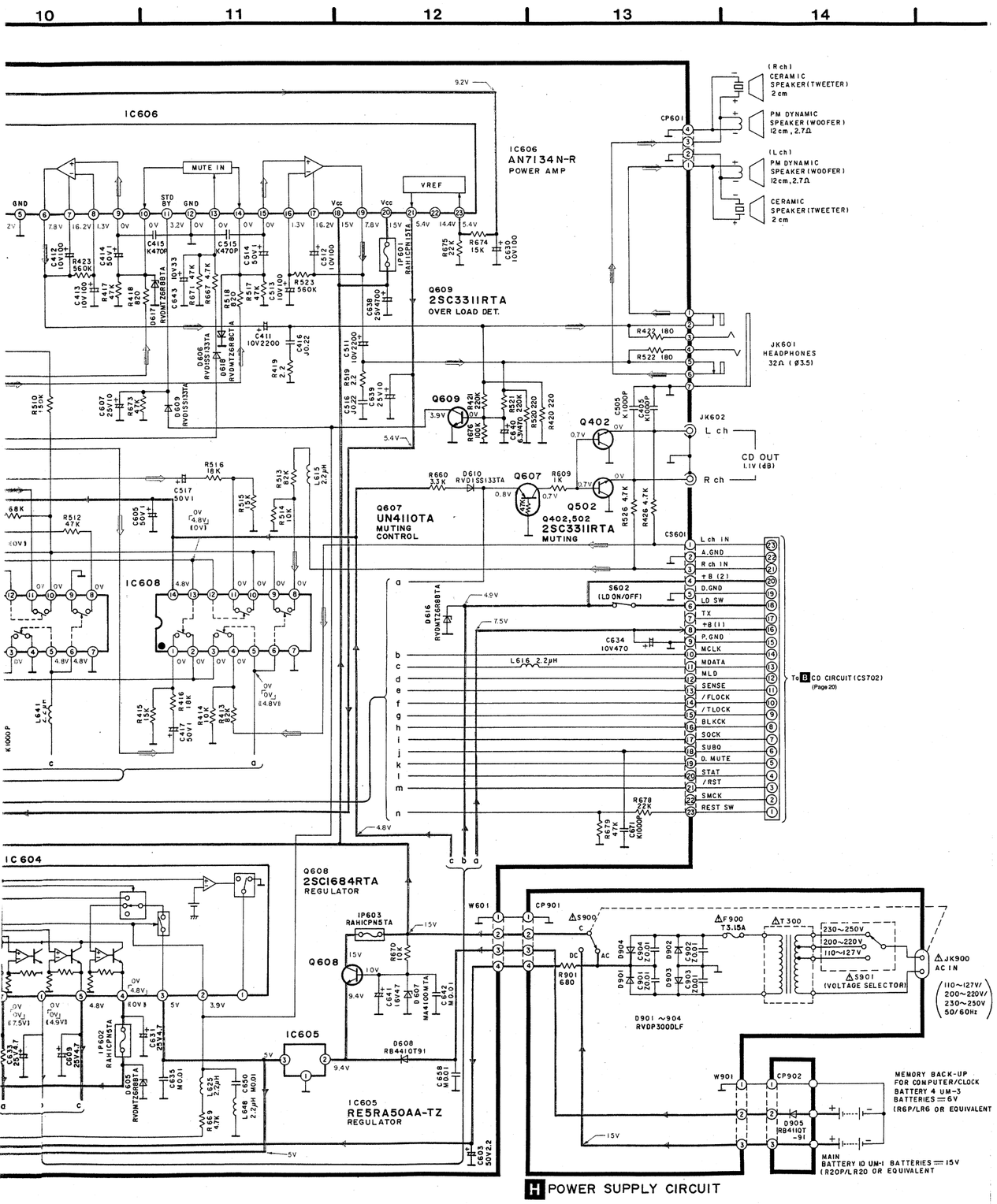
To C TAPE DECK CIRCUIT(CP309) (Page 27)

To C TAPE DECK CIRCUIT(CP307) (Page 27)

To A TUNER CIRCUIT(CS2) (Page 18)

To A TUNER CIRCUIT(CP1) (Page 18)

G OPERATION CIRCUIT



H POWER SUPPLY CIRCUIT

Notes:

<for Operation, System control and Power supply circuit>

- ●S600: AM frequency step select switch in "10 kHz" position.
- ●S601: CD cover open/close detection switch.
- ●S602: Laser ON/OFF switch.
- ●S801: CD program set switch. (SET)
- ●S802: Time set switch. (TIME ADJUST)
- ●S803: Edit recording switch. (HIGH)
- ●S804: ATLS switch. (ATLS)
- ●S805: Timer check switch. (TIMER CHECK)
- ●S806: Edit recording switch. (NORMAL)
- ●S807: Preset tuning switch. (−)
- ●S808: Time set/Manual tuning switch. (−)
- ●S809: Recording pause switch. (REC PAUSE)
- ●S810: Tape length switch. (TAPE LENGTH)
- ●S811: Timer play switch. (PLAY-TIMER)
- ●S812: Reverse mode select switch. (REV MODE)
- ●S813: CD skip/search switch. (⏮/◀◀)
- ●S814: Sleep switch. (SLEEP)
- ●S815: Deck front side playback switch. (▷)
- ●S816: Tuning memory switch. (TUNING MEMORY)
- ●S817: Timer recording switch. (REC-TIMER)
- ●S818: Deck fast/TPS switch. (TPS/▷▷)
- ●S819: Preset tuning switch. (+)
- ●S820: Time set/Manual tuning switch. (+)
- ●S821: Tape counter reset switch. (COUNTER RESET)
- ●S822: CD skip/search switch. (▶▶/▶▶⏭)
- ●S823: Beep on/off switch. (BEEP)
- ●S824: Deck select switch. (DECK 1/2)
- ●S825: CD edit mode select switch. (EDIT MODE)
- ●S826: Function select switch. (CD)
- ●S827: Deck fast/TPS switch. (◁◁/TPS)
- ●S828: FM mode select/Beat proof switch. (FM MODE/B.P.)
- ●S829: Function select switch. (TUNER/BAND)
- ●S830: Deck reverse side playback switch. (◁)
- ●S831: CD pause switch. (❚❚)
- ●S832: Function select switch. (TAPE)
- ●S833: Deck stop switch. (□)
- ●S834: CD stop switch. (■)
- ●S835: Power switch. (POWER)
- ●S836: CD playback switch. (▶)
- ●S900: AC/DC select switch.
- ●S901: Voltage select switch.
- ●VR601: XBS level control VR. (XBS LEVEL)
- ●VR602: Volume control VR. (VOLUME)
- ●VR603: Tone control VR. (TONE)

<for Tape deck and Mechanism circuit>

- ●S951: Deck 1 mode detect switch.
- ●S952: Deck 1 cassette tape insertion detect switch.
- ●S953: Deck 1 CrO_2 tape detect switch.
- ●S971: Deck 2 mode detect switch.
- ●S972: Deck 2 cassette tape insertion detect switch.
- ●S973: Deck 2 record prevention tab detect switch. (REV)
- ●S974: Deck 2 record prevention tab detect switch. (FWD)
- ●S975: Deck 2 CrO_2 tape detect switch.
- ●VR301: Deck 2 tape speed adjustment VR. (HIGH)
- ●VR302: Deck 2 tape speed adjustment VR. (NORMAL)
- ●VR303: Deck 1 tape speed adjustment VR.

General

- ●DC voltage measurements are taken with electronics voltmeter.
  The negative terminal of the battery provides negative meter connection point.
  No mark...TAPE PLAYBACK (DECK 2) [ ]...TAPE RECORDING << >>...HIGH SPEED EDITING
  (( ))...CD ⌜ ⌟...TUNER
- ●Battery current:

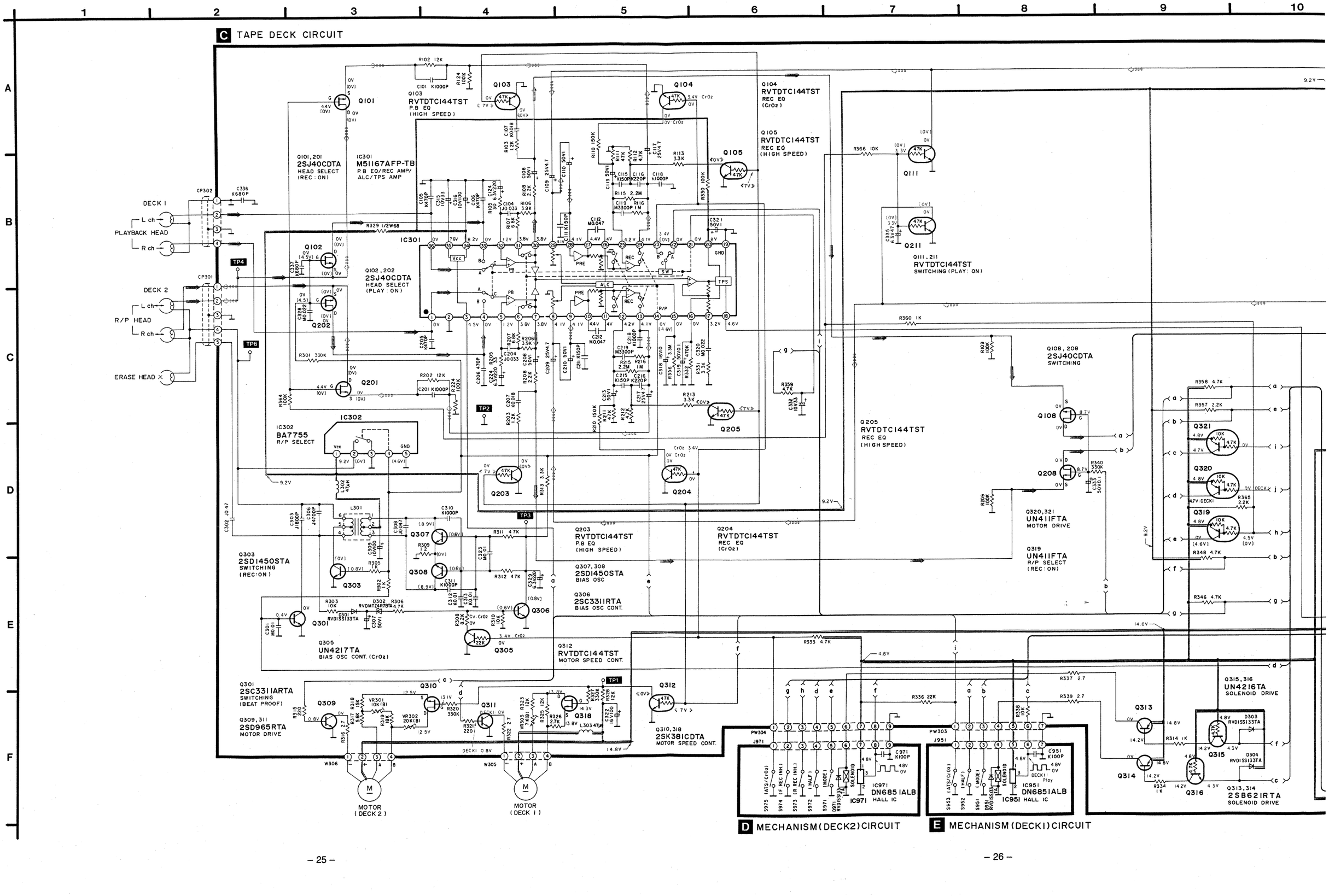
Vol. min	169 mA (AM)	Vol. max	520 mA (AM)	Measurement instruction
	172 mA (FM)		520 mA (FM)	(AM: 74 dB/m, 30% Mod.
	258 mA (TAPE)		560 mA (TAPE)	FM: 60 dB, 30% Mod.
	380 mA (CD)		2300 mA (CD)	TAPE: 315 Hz, 0 dB
				CD: 1 kHz, 0 dB)

- ●Important safety notice.
  Components identified by ⚠ mark have special characteristics important for safety.
  When replacing any of these components, use only manufacturer's specified parts.

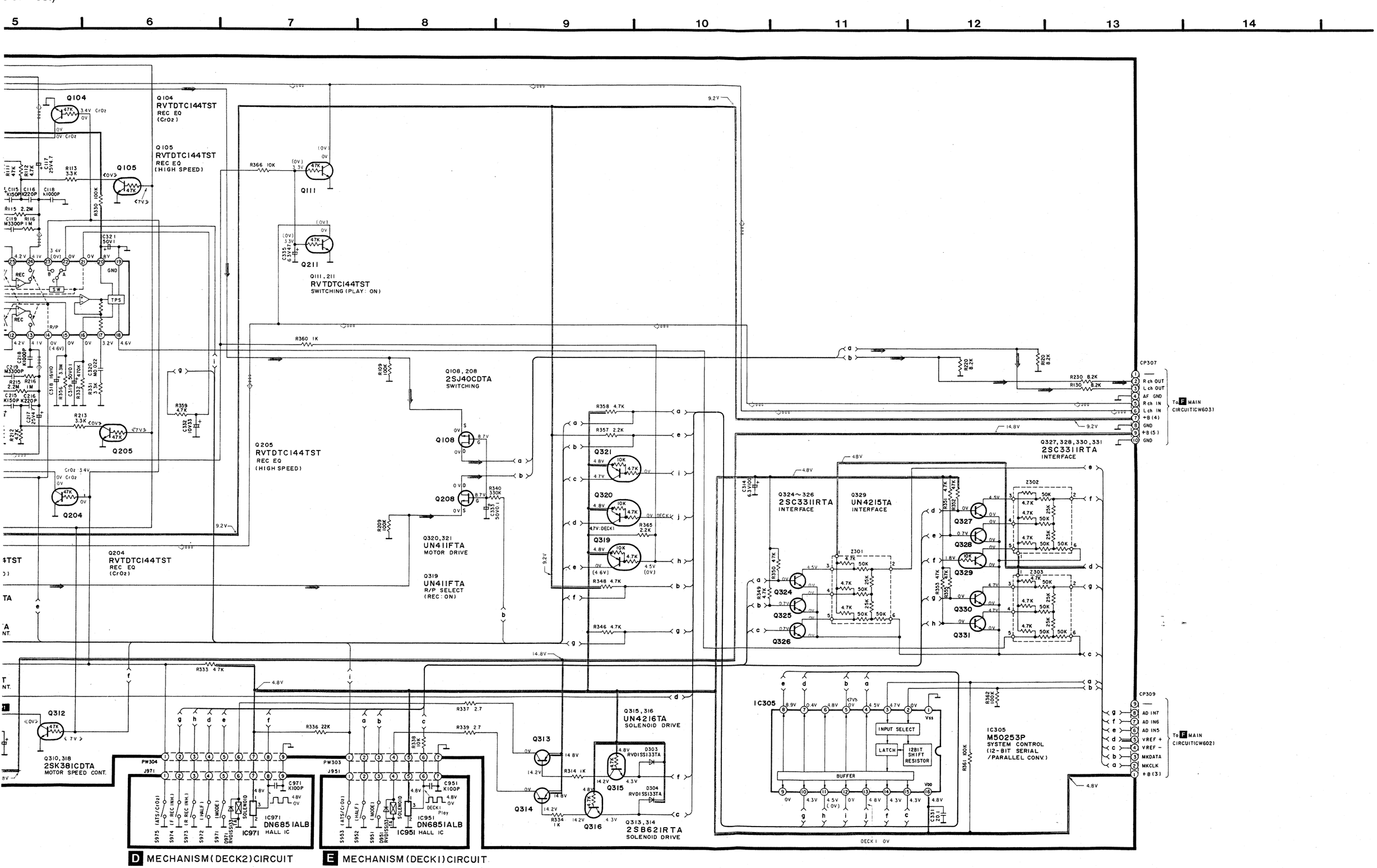
- ●**This schematic diagram may be modified at any time with the development of new technology.**

⇨: Tuner Signal Line
⇨: CD Signal Line
⇨: Tape Playback Signal Line
⇨: +B Line
⇨: Mic Signal Line
⇨: AF Signal line
□□□⇨: Recording Signal Line

■ SCHEMATIC DIAGRAM •TAPE DECK AND MECHANISM CIRCUIT (Parts list on pages 57~63.)



s 57~63.)

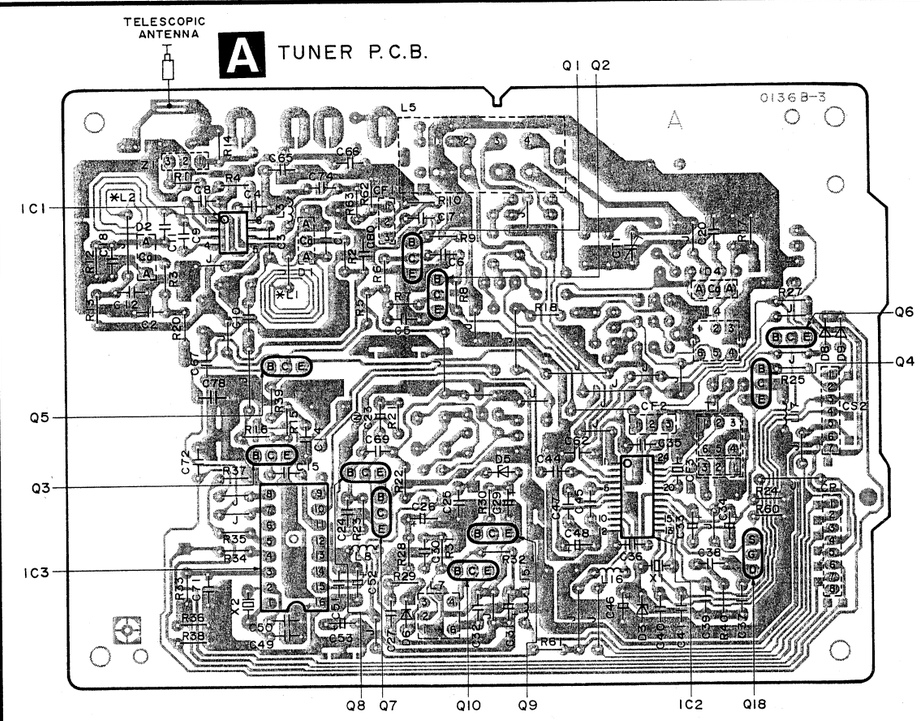


D MECHANISM (DECK2) CIRCUIT

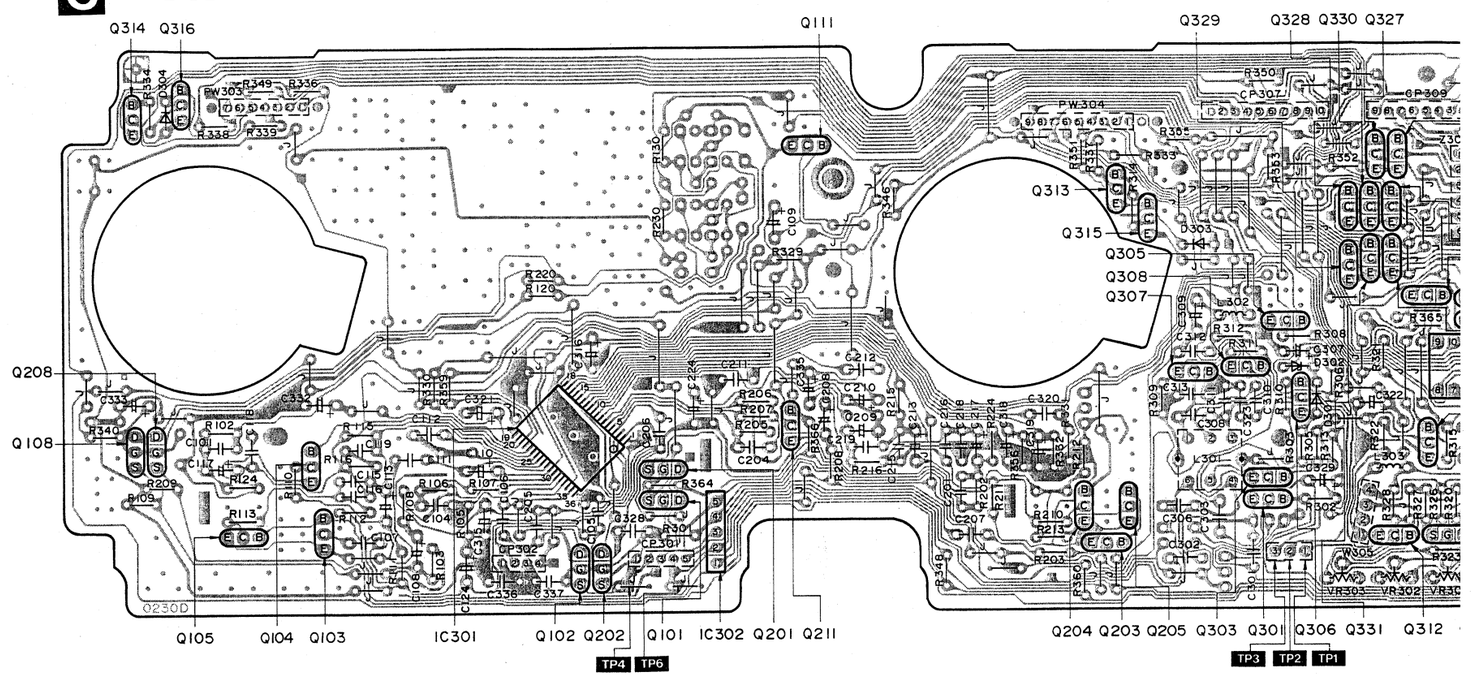
E MECHANISM (DECK1) CIRCUIT

■ CIRCUIT BOARD DIAGRAM

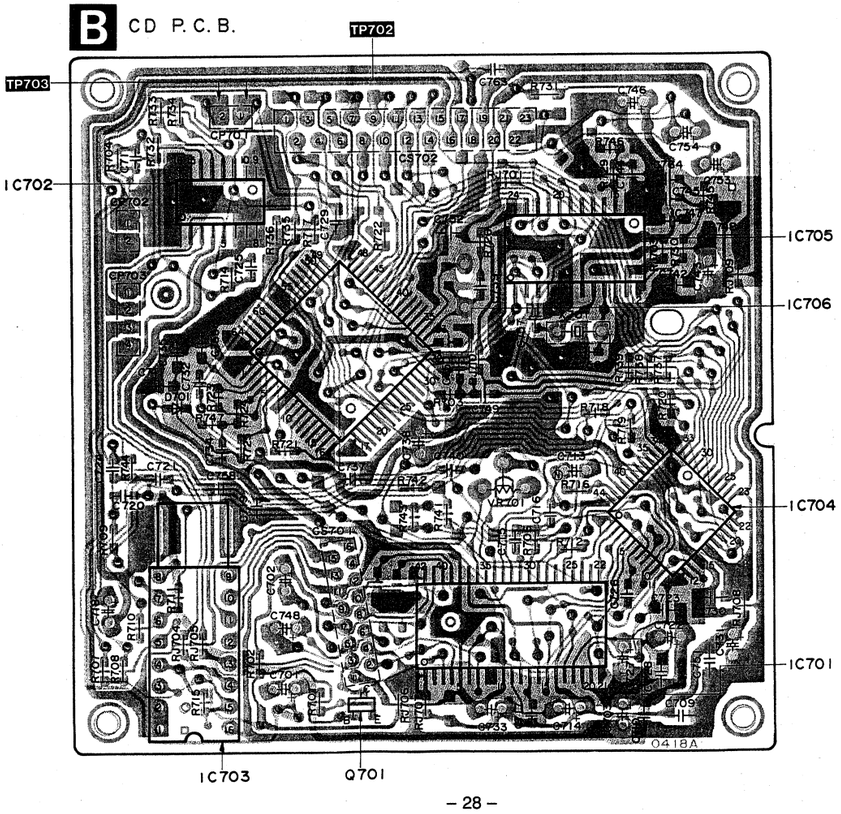
A TUNER P.C.B.



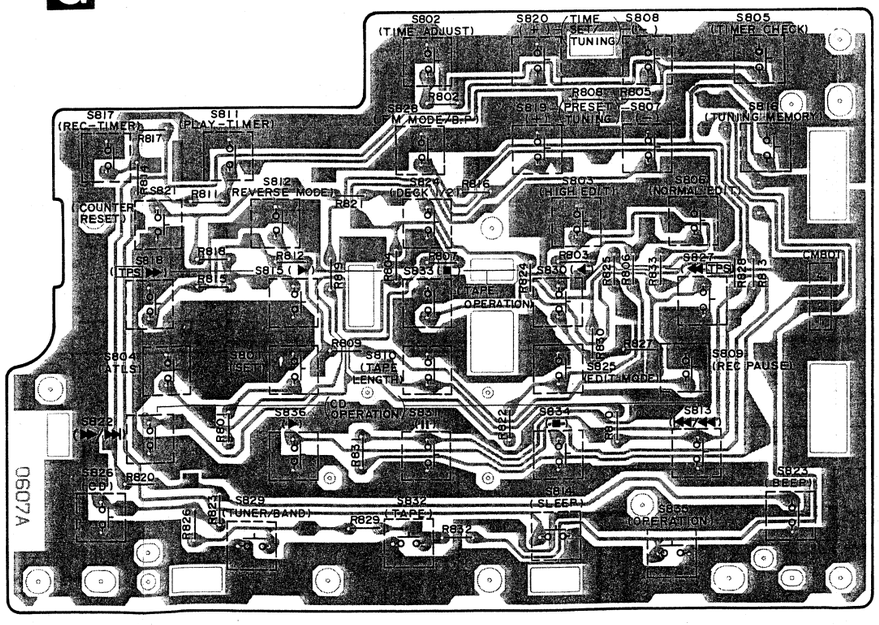
C TAPE DECK P.C.B.



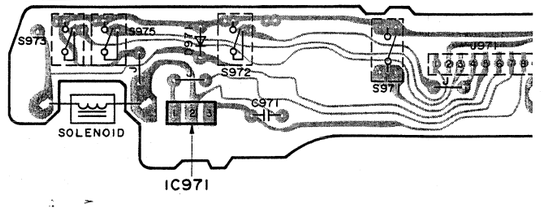
B CD P.C.B.



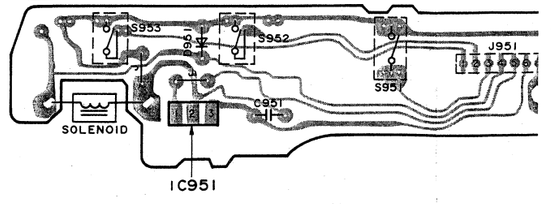
G OPERATION P.C.B.



D MECHANISM (DECK2) P.C.B.



E MECHANISM (DECK1) P.C.B.

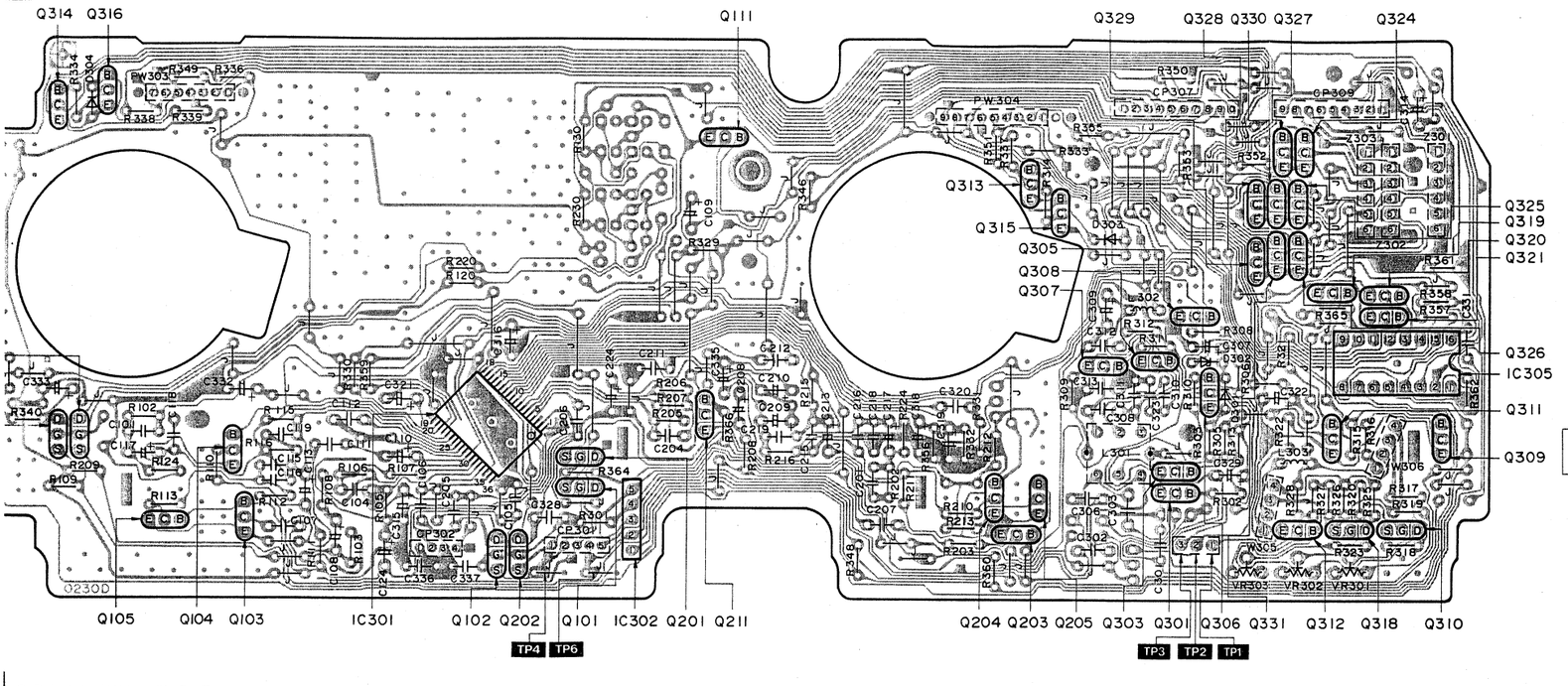


Notes:

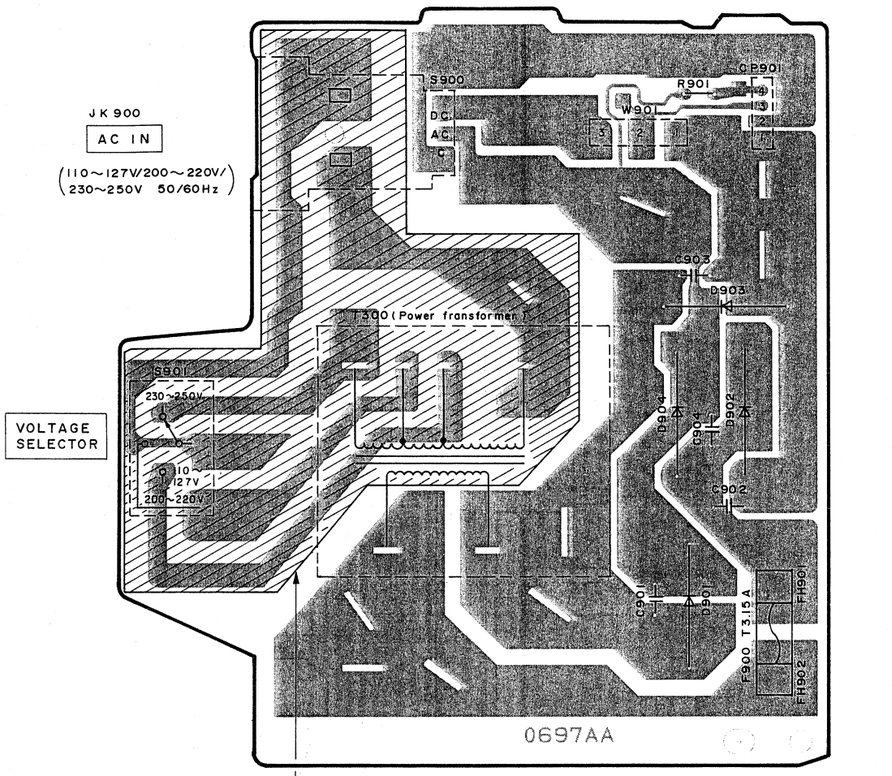
- The circuit shown in ( ) on the conductor indicates printed circuit on the back side of the printed circuit board.
- The circuit shown in ( ) on the conductor indicates printed circuit on the front side of the printed circuit board.
- The symbols (●) shown in the circuit board indicate connection points between conductors on the front side and back side of the circuit board.
- **This circuit board diagram may be modified at any time with the development of new technology.**

5 6 7 8 9 10 11 12 13 14

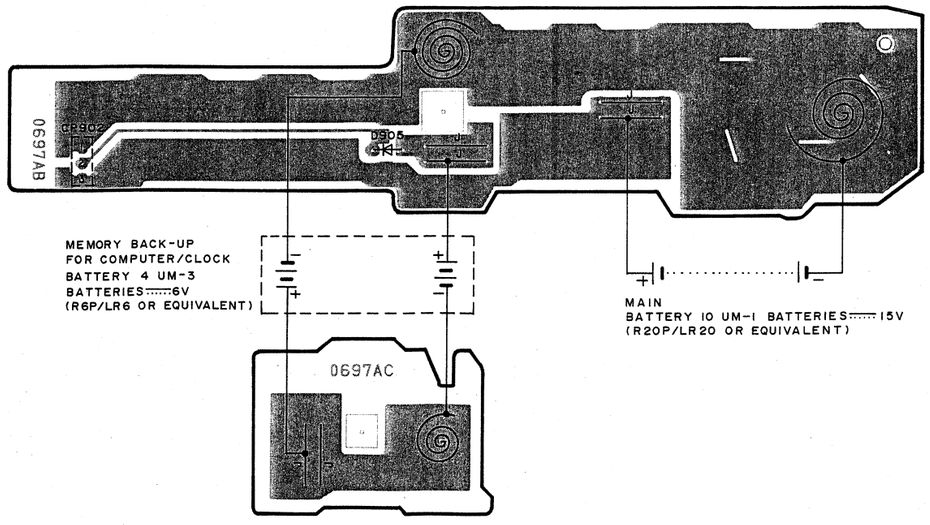
C TAPE DECK P. C. B.



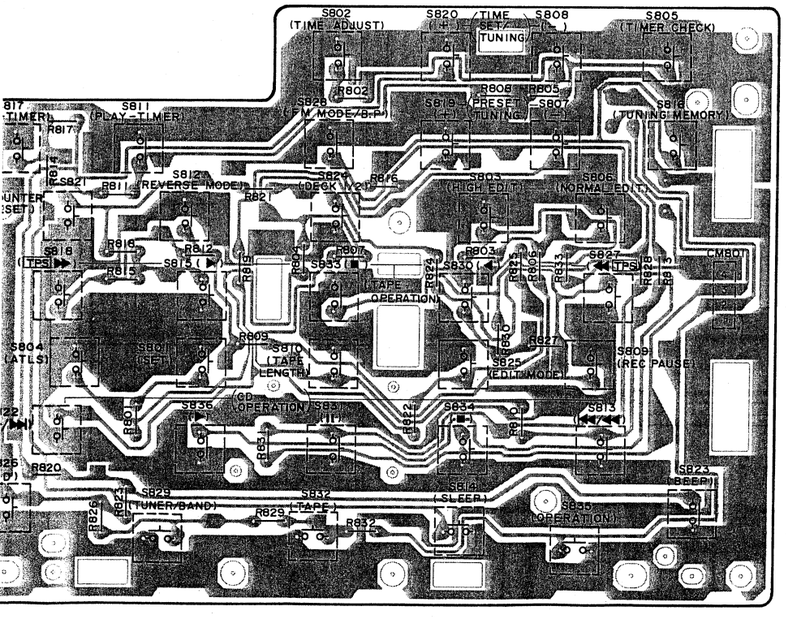
H POWER SUPPLY P.C.B.



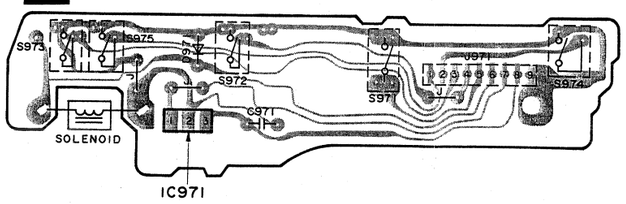
CAUTION
RISK OF ELECTRIC SHOCK
AC voltage line. Please do not touch this portion.



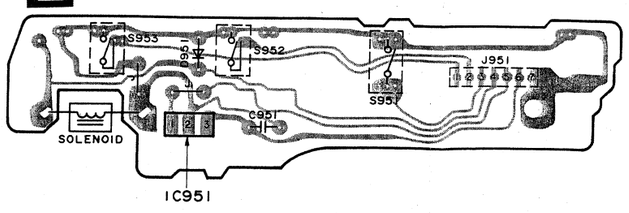
OPERATION P.C.B.



D MECHANISM (DECK2) P. C. B.

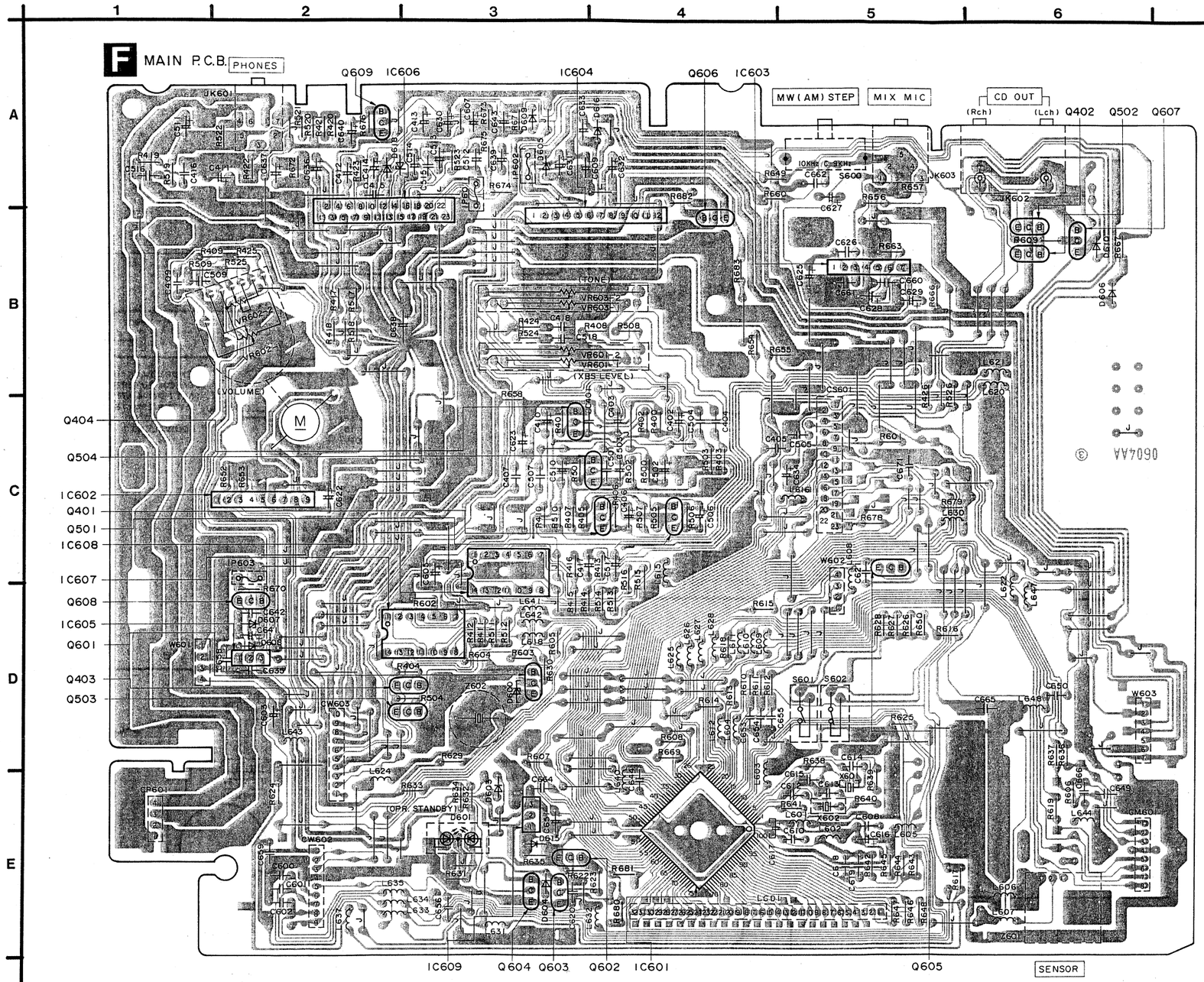


E MECHANISM (DECK1) P. C. B.



:
circuit shown in ( ) on the conductor indicates printed circuit on the back side of the printed circuit board.
circuit shown in ( ) on the conductor indicates printed circuit on the front side of the printed circuit board.
symbols ( ) shown in the circuit board indicate connection points between conductors on the front side and back side of the circuit board.
circuit board diagram may be modified at any time with the development of new technology.

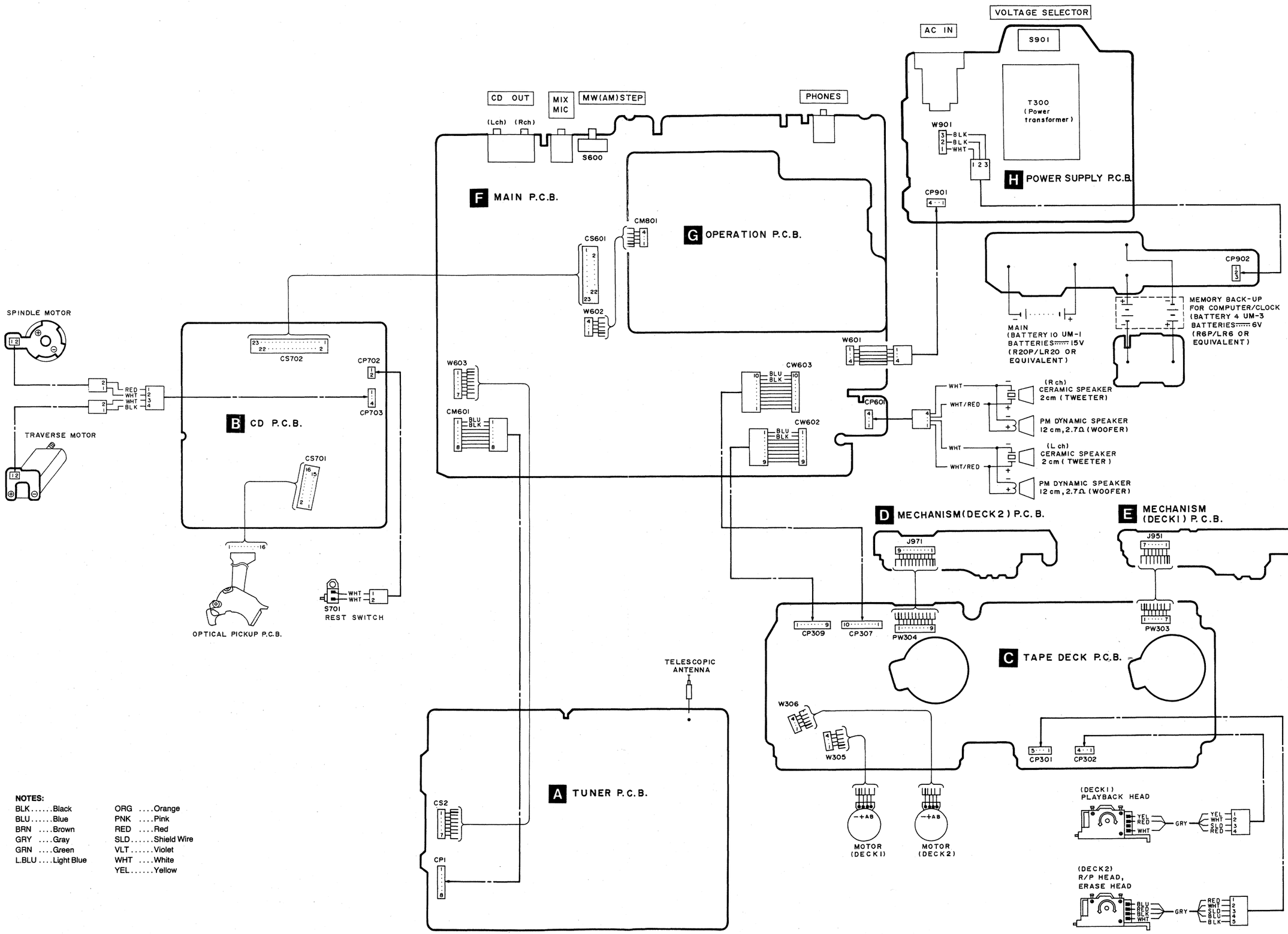
■ CIRCUIT BOARD DIAGRAM



RVITA7358FT	TCA0372DM2R	MN6475 TA8132F	M51167AFP
AN8800SCE2	MN6650	MN6626	MN1872410RRY
MC14066BCP	M50253P	LM7001	AN8377N
BA7755	TA2011S	BA6418N	BA3920
AN7134N-R	S8053HNB-T	DN6851ALB	2SC1674LTA 2SD965Q 2SC1684RTA
RVTDTA143XST RVTDTC144TST	UN4211	2SA1309R 2SC3311AR 2SC3311R 2SC3312RTA 2SC3313B 2SD1450RTA UN411FTA	UN421FTA UN4110TA UN4213 UN4215 UN4216-S UN4217TA UN4219TA
2SK381BCDTA 2SJ40CDTA 2SK38ICTA	2SB1393AU	2SB709S	MA165 RVD1SS133TA RB441QT91

RVDMTZ4R7BTA RVDMTZ6R8BTA	MA4100MTA MA4130M MA4160M	MA4051MTA	RVDP300DLF	1SV147T4MATU	MA110TW	LN021529P

■ WIRING CONNECTION DIAGRAM



NOTES:

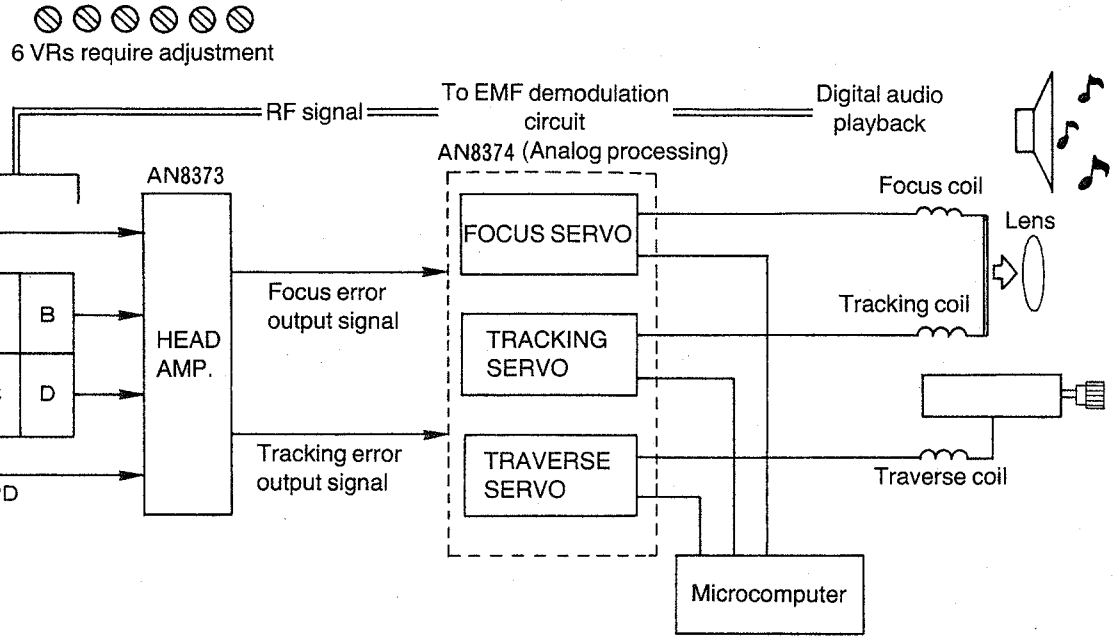
BLK.....Black	ORG ....Orange
BLU.....Blue	PNK ....Pink
BRN ....Brown	RED ....Red
GRY ....Gray	SLD.....Shield Wire
GRN ....Green	VLT.....Violet
L.BLU....Light Blue	WHT ....White
	YEL.....Yellow

■ DIGITAL SERVO SYSTEM

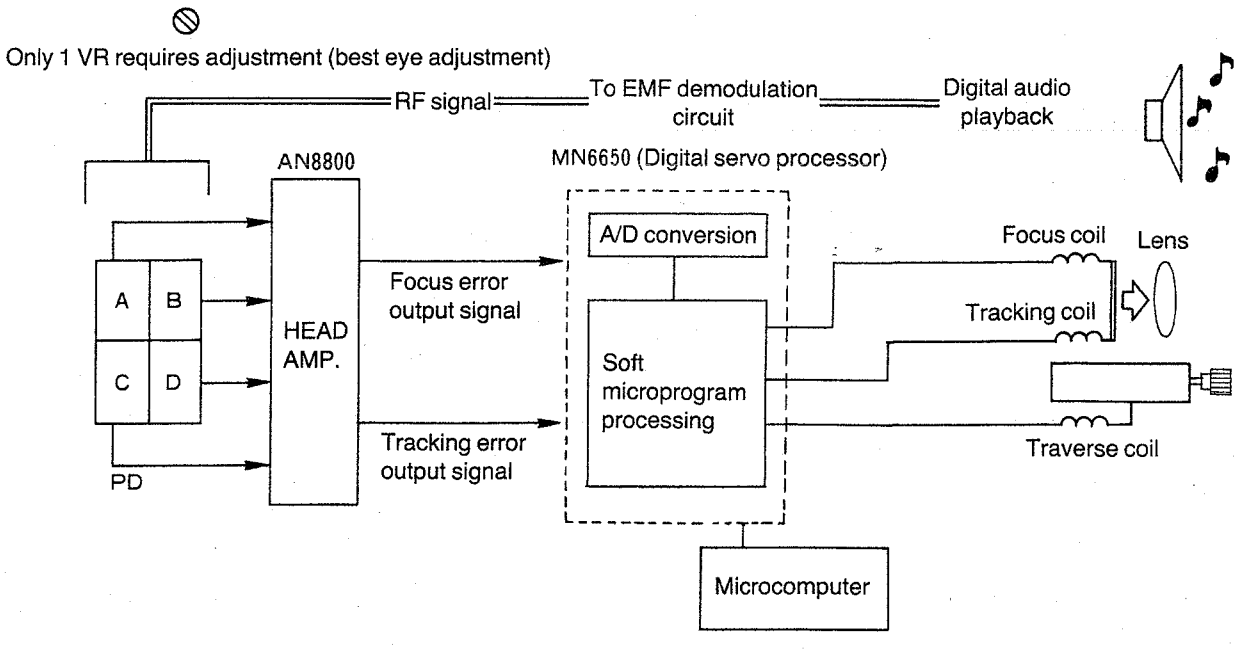
The newly-developed digital servo system is adopted in the servo circuit of the unit's CD player instead of the ordinary analog servo system.

1. The diagrams shown below represent differences between the analog servo and digital servo systems. The HEAD AMP. output signals (i.e., focus error and tracksing error output signals) are analog. These analog signals are converted to the 8-bit digital signals through the MN6650. The MN6650 performs the following adjustments automatically; focus offset, tracking offset, focus gain, tracking gain, and tracking balance adjustments. The outputs from the MN6650 such as the focus coil driving signal, tracking coil driving signal, and traverse motor driving signal are converted to analog signals again and sent to the coils and motor to perform proper servo control for a disc.

ANALOG SERVO SYSTEM



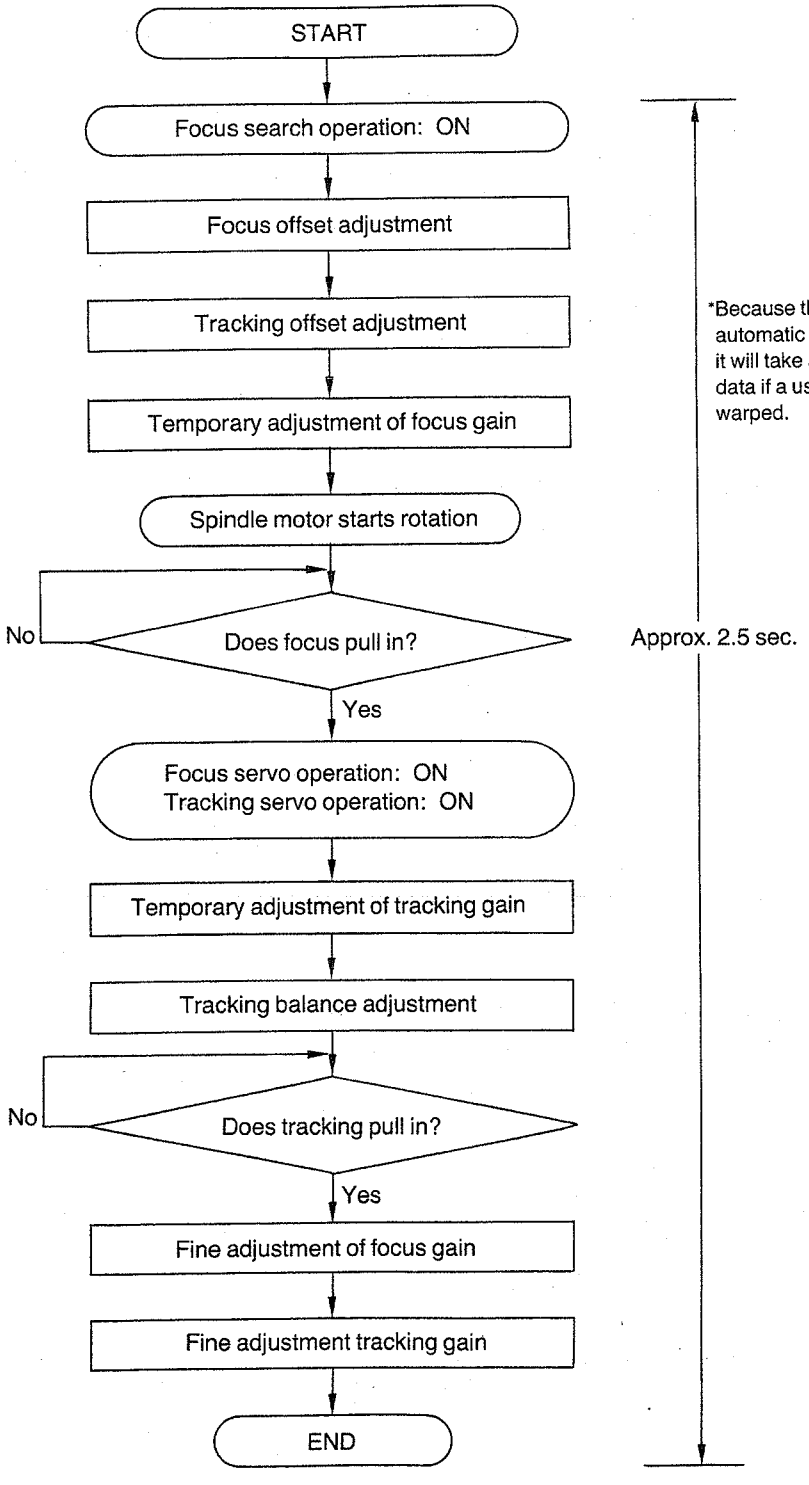
DIGITAL SERVO SYSTEM



2. The servo processor IC MN6650 of the newly-developed digital servo circuit automatically performs the following adjustments which were originally adjusted in the conventional analog servo circuit:
(1) Focus offset, (2) Tracking offset, (3) Focus gain, (4) Tracking gain, and (5) Tracking balance. Therefore, you do not have to perform not the above-mentioned electrical adjustments manually. Only the best eye (PD balance) needs to be adjusted adjustment. You can obtain an optimum servo control for a disc to be played.
[You must perform the best eye (PD balance) adjustment manually.]

The following flow chart shows the sequence of automatic adjustments.

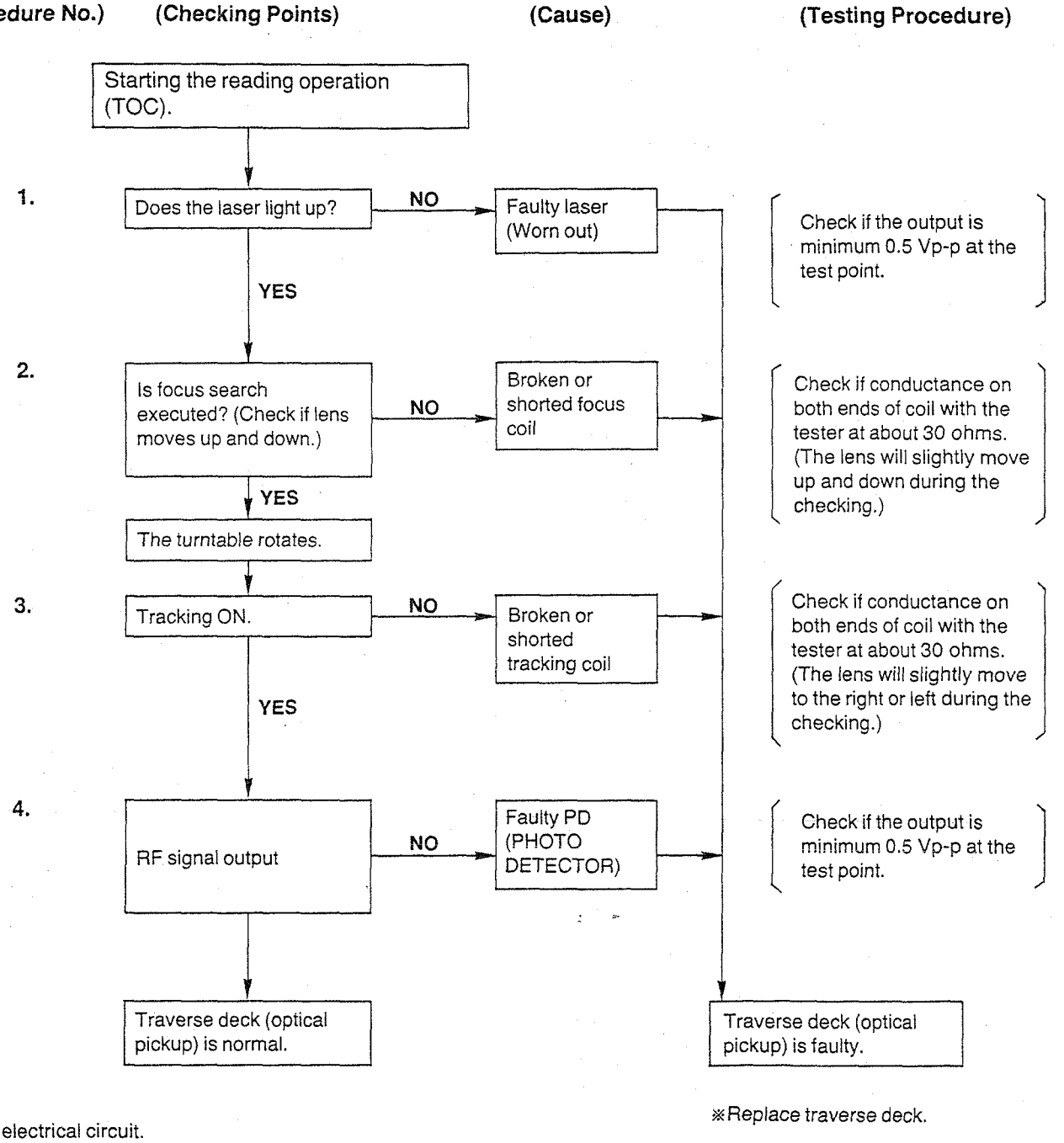
●Flow chart on automatic adjustment sequence


START
Focus search operation: ON
Focus offset adjustment
Tracking offset adjustment
Temporary adjustment of focus gain
Spindle motor starts rotation
No
Does focus pull in?
Yes
Focus servo operation: ON
Tracking servo operation: ON
Temporary adjustment of tracking gain
Tracking balance adjustment
No
Does tracking pull in?
Yes
Fine adjustment of focus gain
Fine adjustment tracking gain
END
*Because the microcomputer precisely performs automatic adjustments as shown in the flow chart, it will take approx. 5 seconds to finish reading TOC data if a used disc is eccentric one or its surface is warped.
Approx. 2.5 sec.

<CD SECTION>

■ CHECKING THE OPERATION PROBLEMS ON THE TRAVERSE DECK (OPTICAL PICKUP)

Make sure to follow the procedures below to check the operation problems of the traverse deck (optical pickup) before replacing it. Replace the traverse deck only after the problem is identified.


(Procedure No.)
(Checking Points)
(Cause)
(Testing Procedure)
Starting the reading operation (TOC).
1.
Does the laser light up?
NO
Faulty laser (Worn out)
YES
Check if the output is minimum 0.5 Vp-p at the test point.
2.
Is focus search executed? (Check if lens moves up and down.)
NO
Broken or shorted focus coil
YES
Check if conductance on both ends of coil with the tester at about 30 ohms. (The lens will slightly move up and down during the checking.)
The turntable rotates.
3.
Tracking ON.
NO
Broken or shorted tracking coil
YES
Check if conductance on both ends of coil with the tester at about 30 ohms. (The lens will slightly move to the right or left during the checking.)
4.
RF signal output
NO
Faulty PD (PHOTO DETECTOR)
Check if the output is minimum 0.5 Vp-p at the test point.
Traverse deck (optical pickup) is normal.
Traverse deck (optical pickup) is faulty.

※Replace traverse deck.

- Check electrical circuit.
- CD is not adjusted properly. Adjust CD again.
  (1) Mechanical adjustment.
  (2) Focus balance adjustment (PD balance)
  } Refer to pages 43, 44.
- Check for flaws on disc or if it is warped or not centered.

※Checking Operations of Replaced Traverse Deck (New Traverse Deck)

a) Check the operations described below on the traverse deck after replacing it.

＊Checking Skip Search

1. Play an ordinary musical program disc.
2. Press the skip button to check for normal skip search operation (in both the forward and reverse directions).

＊Checking Manual Search

1. Play an ordinary musical program disc.
2. Press the manual search button to check for smooth manual search operations at either low or high speed (in both the forward and reverse directions).

＊Checking Using Defect Disc.

1. Play the 0.7 mm black dot and the 0.7 mm wedge on the defect test disc (SZZP1054C) and verify that no sound skip or noise occurs.
2. Play the middle tracks of the uneven test disc (SZZP1056C) and verify that no sound skip or noise occurs.

b) If the operations are normal, CD adjustment are not required when the traverse deck is replaced.

Note: CD adjustments are required in the cases below. (Mechanical adjustments are not necessary.)
(See item 2-7 on pp. 43, 44.)

- If audio is not played back continuously or noises occur after step (a) is excuted.
- If the adjustment VR (V701) were rotated before the traverse deck was replaced.
- If the ICs in the servo circuit or adjustment VRs were replaced.

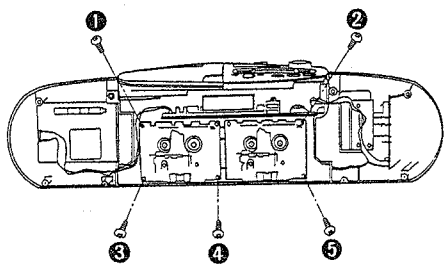
Caution:

- It is very dangerous to look at or touch the laser beam. (Laser radiation is invisible.)
  With the unit turned "on", laser radiation is emitted from the pickup lens.
  Avoid exposure to the laser beam, especially when performing adjustments.

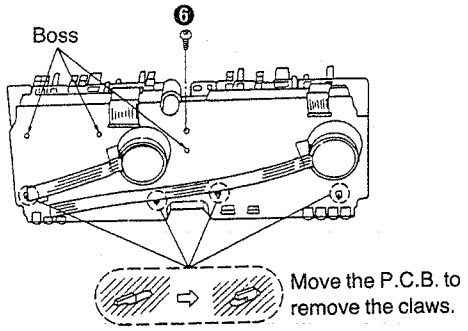
■ HOW TO CHECK THE P.C.B.

•How to check the Tape Deck P.C.B.

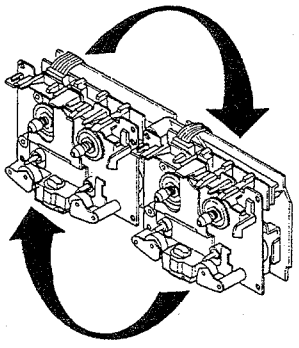
1. Remove the front cabinet by following the disassembly instructions in Ref. No. 2 in the Removel of the Front Cabinet (See page 8).



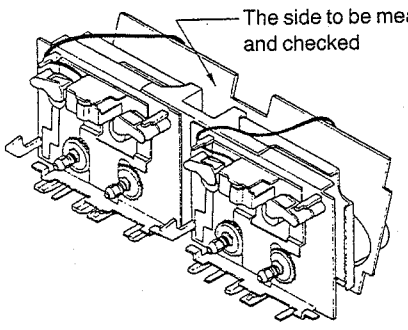
2. Remove 5 screws (❶~❺).
3. Remove the tape deck unit by pulling it to the front with the wires connected.



4. Remove one screw (❻).
5. Remove 3 bosses.
6. Remove 4 claws by moving the P.C.B.



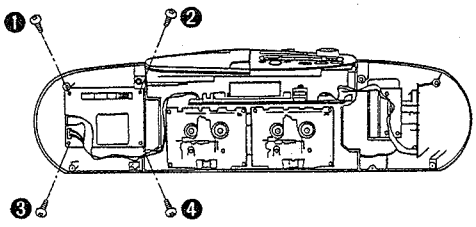
7. Turn the tape deck unit upside down.



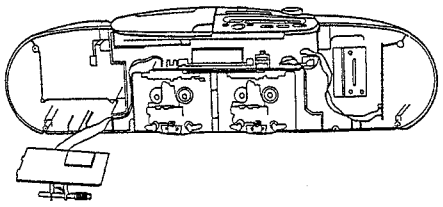
8. Detach the mechanism and tape deck P.C.B. as shown in the figure.

•How to check the Tuner P.C.B.

1. Remove the front cabinet by following the disassembly instructions in Ref. No. 2 in the Removal of the Front Cabinet (See page 8).



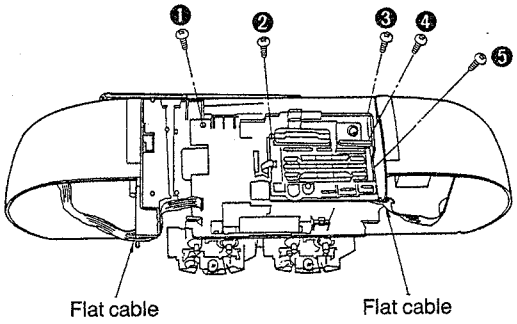
2. Remove 4 screws (❶~❹).



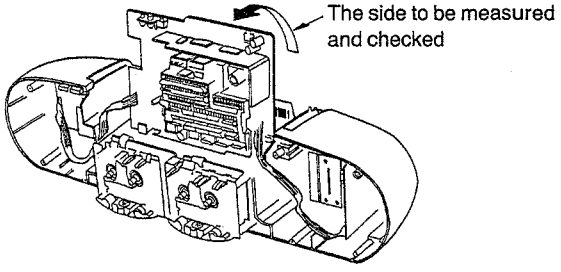
3. Remove the tuner P.C.B. by pulling it to the front with the wires connect.

•How to check the Main P.C.B.

1. Remove the CD unit by following the disassembly instructions in Ref. No. 6 in the Removal of the CD Unit (See page 9).



2. Release 2 flat cable.
3. Remove 5 screws (❶~❺).

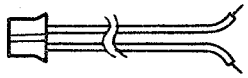


4. Lift up the main P.C.B. in the direction of arrow.

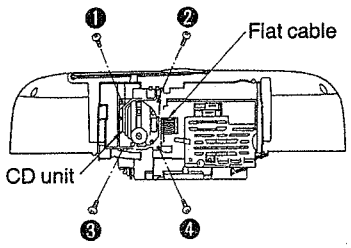
■ The optional extension cable kit composed of a 23-pin flat cable and a 2-pin connector should be used to perform measurement and adjustment of the unit's CD P.C.B.

Part number of the Extention Cable Kit: RFKZ0009

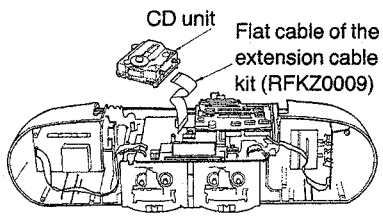
23-pin flat cable ..... ×1

2-pin connector ..... ×1

•How to check the CD P.C.B.

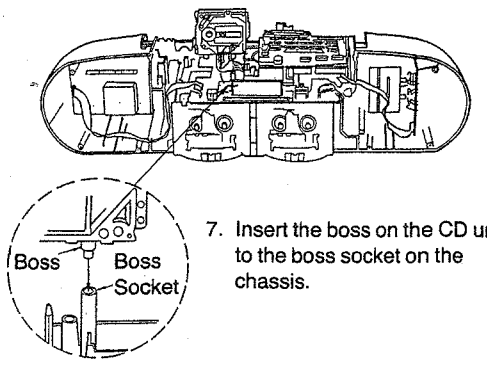
1. Remove the front cabinet by following the steps in Ref. No. 2 of "Removal of the Front Cabinet" in the DISASSEMBLY INSTRUCTIONS (see page 8).
2. Remove the upper cabinet by following the steps in Ref. No. 5 of "Removal of the Upper Cabinet" in the DISASSEMBLY INSTRUCTIONS (see page 9).



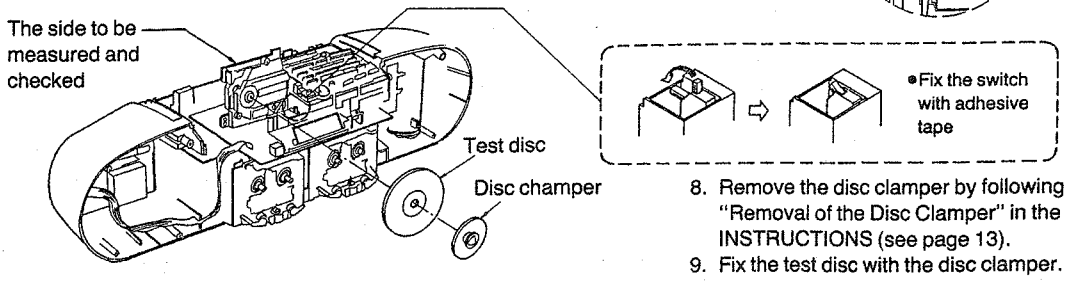
3. Remove 4 screws (❶~❹).
4. Remove the CD unit.
5. Pull out the flat cable.



6. After disconnecting the flat cable, connect the 23-pin flat cable of the extension cable kit.



7. Insert the boss on the CD unit to the boss socket on the chassis.



8. Remove the disc clamper by following the steps in Ref. No. 21 of "Removal of the Disc Clamper" in the DISASSEMBLY INSTRUCTIONS (see page 13).
9. Fix the test disc with the disc clamper.

■ MEASUREMENTS AND ADJUSTMENTS

<TUNER SECTION>

•ALIGNMENT INSTRUCTION

READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT	
•Set power source voltage to 15 V DC. •Set power switch to ON. •Set function switch to TUNER/MW or LW. •Set volume control to center. •Set AM step select switch to 10 kHz.	•Set tone control to center. •Set XBS control to minimum. •Output of signal generator should be no higher than necessary to obtain an output reading.

•AM-RF ALIGNMENT

(The parts other than the ones listed below are aligned at the factory before they are supplied. Therefore, alignment of those parts is unnecessary when used for replacement.)

SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONIC VOLTMETER or OSCILLOSCOPE)	ADJUSTMENT (Shown in Fig. 1.)	REMARKS
CONNECTIONS	FREQUENCY				
Fashion a loop of several turns of wire and radiate a signal into the loop ant. of receiver.	600 kHz	Tune to signal	Headphones Jack (32Ω) (Fabricate the plug as shown in Fig. 2 and then connect the lead wires of the plug to the measuring instrument.)	(*1) L5 (AM ANT Coil)	Adjust for maximum output. Adjust L5 by moving coil along the ferrite core.
〃	1500 kHz	〃	〃	CT1 (AM ANT Trimmer)	Adjust for maximum output.

(*1) Fix antenna coil with wax after completing alignment.

<CASSETTE DECK SECTION>

•ALIGNMENT INSTRUCTION

READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT	
•Set power source voltage to 15 V DC. •Set power switch to ON. •Set function switch to TAPE. •Set volume control to center.	•Set tone control to center. •Set XBS control to minimum. •Output of signal generator should be no higher than necessary to obtain an output reading.

•HEAD AZIMUTH ALIGNMENT

TEST TAPE	INDICATOR ELECTRONIC VOLTMETER or OSCILLOSCOPE	ADJUSTMENT	SPECIFICATION	REMARKS
QZZCFM (8 kHz, −20 dB)	Headphones Jack (32Ω) (Fabricate the plug shown in Fig. 2 and then connect the lead wires of the plug to the measuring instrument.)	Azimuth Screw (Refer to Fig. 3.)	maximum output.	1. Playback mode. 2. Adjust for maximum output.

•TAPE SPEED ALIGNMENT

TEST TAPE	INDICATOR ELECTRONIC VOLTMETER or OSCILLOSCOPE	ADJUSTMENT	REMARKS
QZZCWAT (3 kHz, −10 dB)	Headphones Jack (32Ω) (Fabricate the plug shown in Fig. 2 and then connect the lead wires of the plug to the meassuring instrument.)	DECK 2 HIGH SPEED ..... VR301 DECK 1 NORMAL SPEED .... VR303 DECK 2 NORMAL SPEED .... VR302 (Shown in Fig. 5.)	1. Short the test point TP1 and TP2, TP2 and TP3 to set the high speed mode. 2. Insert test tape (QZZCWAT) in DECK 1 and start playback in forward direction. •This frequency is defined as **F**. 3. Insert test tape (QZZCWAT) in DECK 2 and start playback in forward direction. 4. Adjust VR301 until the frequency is set to **F±40 Hz.** 5. Open the test point TP1 and TP2, TP2 and TP3 to set the normal speed mode. 6. Insert test tape (QZZCWAT) in DECK 1 and start playback in forward direction. 7. Adjust VR303 until the frequency is set to **3000±20 Hz.** 8. Insert test tape (QZZCWAT) in DECK 2 and start playback in forward direction. 9. Ajust VR302 until the frequency is set to **3000±20 Hz.**

•RECORD BIAS CHECK

TEST TAPE	INDICATOR ELECTRONIC VOLTMETER or OSCILLOSCOPE	ADJUSTMENT	SPECIFICATION	REMARKS
Use CrO_2 tape and Normal tape	TP6 ...(+) TP4 ...(−) (Shown in Fig. 4.)	——	CrO_2...18.5±2 mV Normal...13±1 mV	•Record mode

•ALIGNMENT POINT

•Please refer to Circuit Board and Wiring Connection Diagram for test point locations.

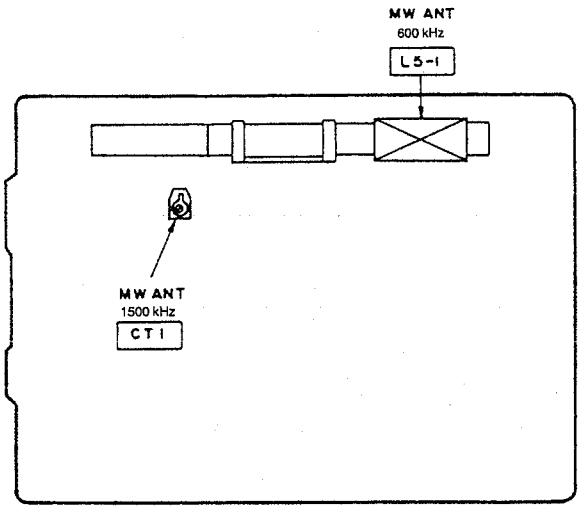


Fig. 1

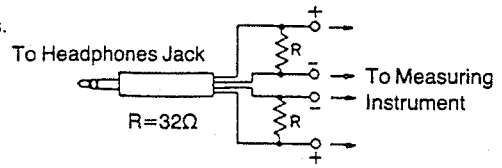


Fig. 2

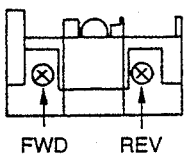
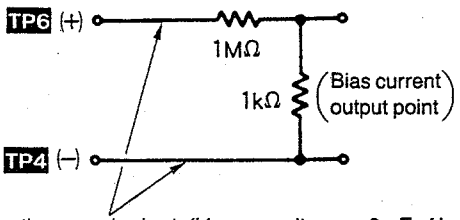


Fig. 3



Keep these cords short. (Line capacitance: 3 pF of less)

•In order not ot influence the bias oscillation, divide the voltage with 1 MΩ and 1 kΩ resistors, and measure the voltage across the 1 kΩ resistor.

Fig. 4

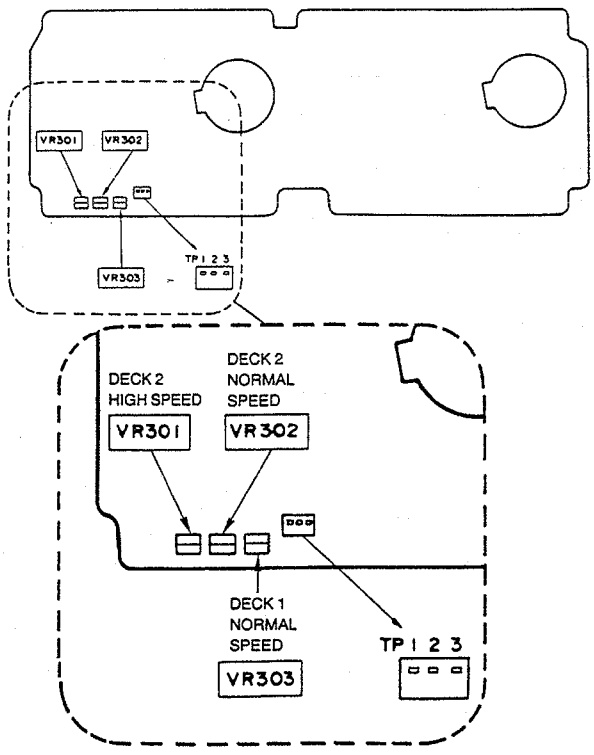
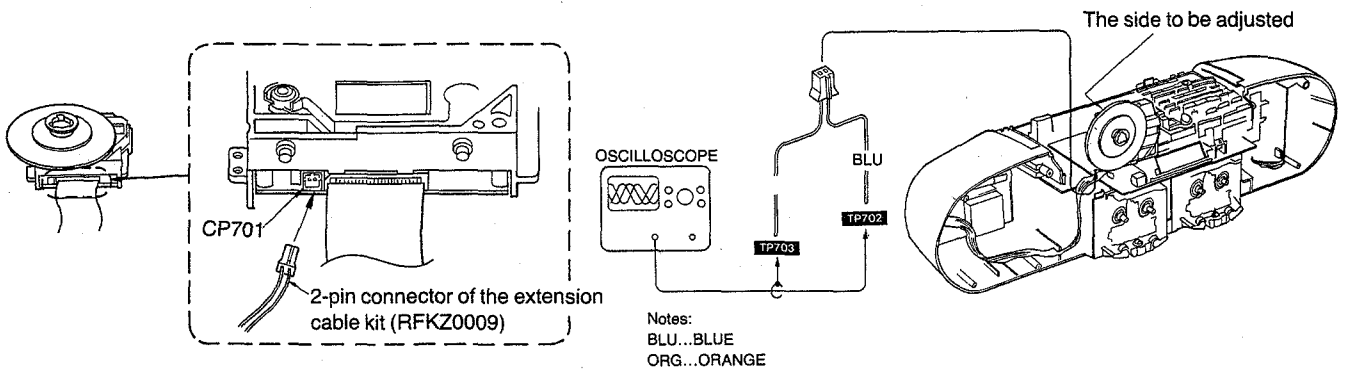


Fig. 5

<CD SECTION>

•HOW TO ADJUST THE CD P.C.B.

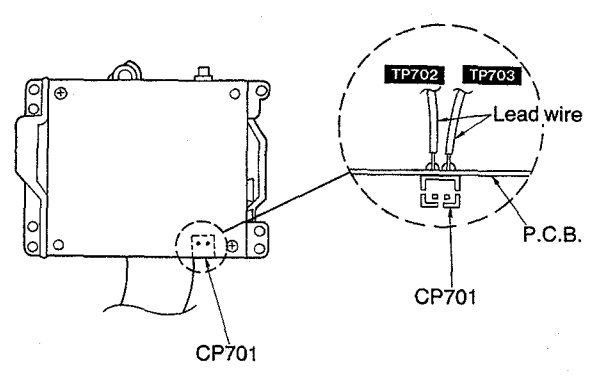
1. Attach the CD unit and load the test disc by following the steps in the section "CHECK OF THE CD P.C.B.



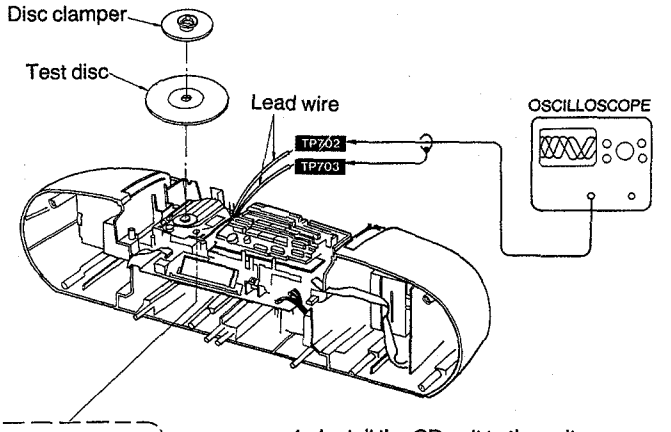
2. Connect the 2-pin connector of the extension cable kit (RFKZ0009) to CP701 as shown in the figure.
3. Connect the 2-pin connector's orange and blue wires respectively to an oscilloscope as shown in the figure.

•HOW TO ADJUST THE CD P.C.B. IF THE EXTENSION CABLE KIT IS NOT AVAILABLE

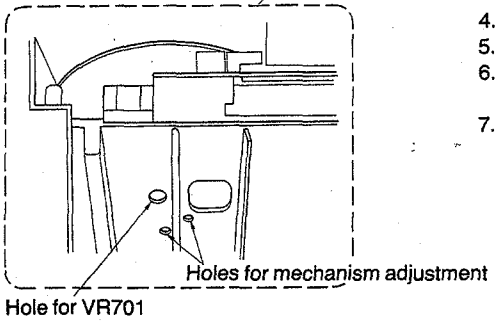
1. Remove the mechanism by following the steps in Ref. No. 3 of "Removal of the Mechanism" in the DISASSEMBLY INSTRUCTION.
2. Remove the CD unit by following the steps in Ref. No. 6 of "Removal of the CD Unit" in the DISASSEMBLY INSTRUCTIONS.



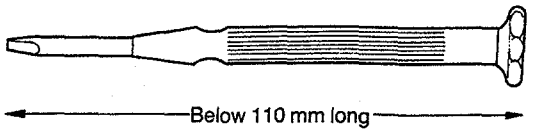
3. Solder the lead wire to the connector (CP701) as shown in the figure.



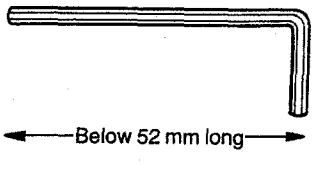
4. Install the CD unit to the unit.
5. Fix the test disc with the disc clamper.
6. Connect the other end of the soldered lead wire to an oscilloscope.
7. Insert a screwdriver or a hex wrench through the holes inside the unit to perform mechanical or best eye adjustment as shown in the figure.



•Small slotted scrwdriver for VR701 best eye adjustment



•Hex wrench for mechanical adjustment



Caution:
- It is very dangerous to look at or touch the laser beam. (Laser radiation is invisible.)
  With the unit turned "on", laser radiation is emitted from the pickup lens.
  Avoid exposure to the laser beam, especially when performing adjustments.

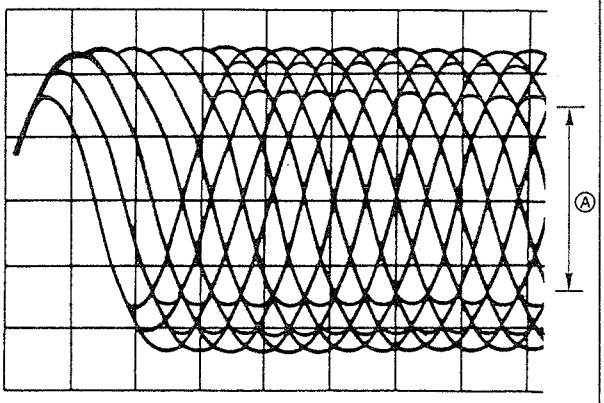
Measuring Instruments and Special Tools

- Test disc
  1. Playability test disc (SZZP1054C)
  2. Uneven test disc (SZZP1056C)
- Allen wrench (M2.0) (SZZP1101C)
- Oscilloscope

(1) MECHANICAL ADJUSTMENT

- When the traverse deck is replaced, making adjustments is not necessary. (The traverse deck ass'y is already adjusted.)
- Make adjustments to improve playability when the traverse deck has not been replaced. Make the electrical adjustments first.

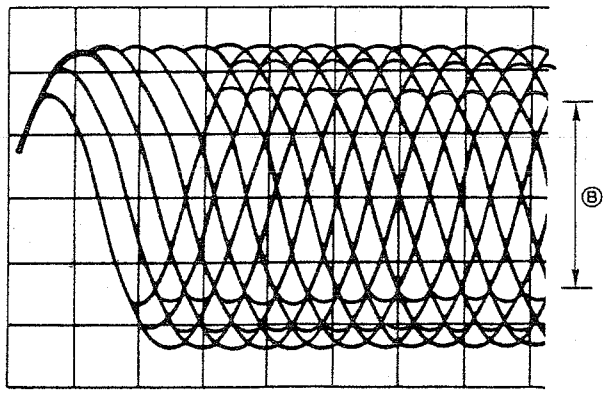
1. Connect the oscilloscope's CH. 1 probe across **TP702** (+) and **TP703** (V-REF) on the Servo P.C.B.
   Oscilloscope setting:
   VOLT ..... 200 mV
   SWEEP ..... 0.5 µsec
   Input coupling ..... AC
2. Switch the player power **ON**, and play track **19** on the test disc (SZZP1056C).
3. Leave the player in Play mode and place it as shown in the figure on the right.
4. Alternately adjust the two mechanical adjusting screws with the 2.0 mm allen wrench (SZZP1101C) until the RF signal amplitude variation on the oscilloscope is minimized. (Shown in Fig. 7)
5. After completing the adjustment, lock the **mechanical adjustments** with lock paint (RZZOL01).



Ⓐ Minimize the variation of amplitude.

(2) BEST EYE (PD BALANCE) ADJUSTMENT

1. Connect the oscilloscope's CH. 1 probe across **TP702** (+) and **TP703** (V-REF) on the Servo P.C.B.
   Oscilloscope setting:
   VOLT ..... 200 mV
   SWEEP ..... 0.5 µsec
   Input coupling ..... AC
2. Switch the player power **ON**, and play the 1 kHz (track 1) on test disc (SZZP1054C).
3. Adjust **VR701** until the RF signal eye pattern amplitude is maximized.



Ⓑ Maximize the amplitude

(3) CHECK OF PLAY OPERATION AFTER ADJUSTMENT

***Checking Skip Search**

1. Play an ordinary musical program disc.
2. Press the skip button to check for normal skip search operation (in both the forward and reverse directions).

***Checking Manual Search**

1. Play an ordinary musical program disc.
2. Press the manual search button to check for smooth manual search operations at either low or high speed (in both the forward and reverse directions).

***Checking Playability**

1. Play the 0.7 mm black dot and the 0.7 mm wedge on the test disc (SZZP1054C) and verify that no sound skip or noise occurs.
2. Play the middle tracks of the uneven test disc and verify that no sound skip or noise occurs.

■ ALIGNMENT POINT

●Please refer to Circuit Board Diagram for test point location

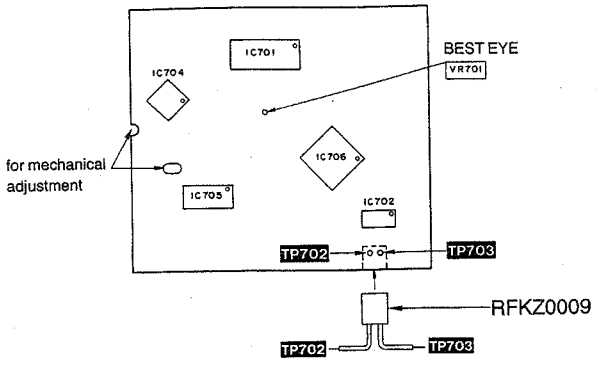


Fig. 6

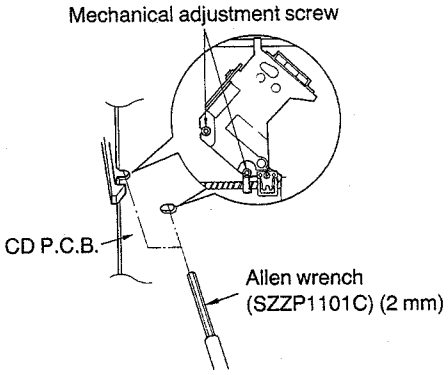


Fig. 7

■ FUNCTION OF IC TERMINALS

●IC701 (AN8800SCE2)

Pin No.	Mark	I/O Division	Function
1	LDG	I	+5 V input
2	LDP	—	———
3	LD	O	Laser power control output
4	LPD	I	Laser power monitor input
5	GND	—	Ground terminal
6	LDON	I	Laser power control input
7	AMPI	I	RF signal input
8	AMPO	O	RF signal output
9	RFIN	I	RF signal input
10	RFEQ	—	Ground
11	C.AGC	I	AGC detecting capacitor input
12	ARF	O	RF signal output
13	C.SBDO	I	Dropout detecting capacitor input
14	RFDET	O	RF detections signal output
15	BDO	O	Black dropout detection output
16	VCC	I	Power supply (+5 V input)
17	SDO	O	System dropont detection output
18	VAD+	O	A/D converter reference voltage output
19	VREF	O	Reference voltage output
20	VAD−	O	A/D converter reference voltage output
21	OFTR	O	Off track detection output

Pin No.	Mark	I/O Division	Function
22	PLAY	I	Play signal input
23	WVEL	I	High speed signal input
24	TES	I	Tracking error signal input
25	PTO	—	———
26	PTI	I	Traverse speed detection signal input
27	PBO	—	———
28	POT	I	Position detecting buffer input
29	CROSS	O	Tracking error cross detection output
30	TE	O	Tracking error output
31	TEBAL	I	Tracking error gain detecting filter input
32	TBAL	I	Tracking balance adjustment
33	VDET	O	Vibration detection signal ouput
34	FE	O	Focus error output
35	EBL2	I	Focus balance adjustment
36	FBL1		
37	VCC	I	Power supply (+5 V input)
38	GND	—	Ground
39	PDBD	I	Photo detector current input
40	PDA	I	
41	PDAD	I	
42	PDB	I	

•IC703 (AN8377N): Motor Dirve

Pin No.	Mark	I/O Division	Function
1	PVCC	I	Driver power supply (+8.9 input)
2	VCC	I	Power supply (+8.9 V input)
3	TB	O	External transistor base driving output
4	VMON	O	Voltage output
5	TVDI	I	Traverse error signal input
6	FDI	I	Focus error signal input
7	TDI	I	Tracking error signal input
8	VREF	I	Reference voltage input

•IC706 (MN6626)

Pin No.	Mark	I/O Division	Function
1	AVSS	—	Ground
2	IREF	I	Reference current input
3	ARF	I	RF signal input
4	DRF	I	DSL bias input
5	DSLF	O	DSL loop filter
6	PLLF	I	PLL loop filter
7	AVDD	I	Power supply (+5 V input)
8	RSEL	I	+5 V input
9 ~ 16	TBUS7 ~ TBUSO	—	Test terminal (Ground)
17	FLAG	—	———
18	IPFLAG		
19	FCLK		
20	BTYCK		
21	WDCK		
22	/RST	I	Reset signal input
23	TX	O	Digital audio interface signal output
24	LDG	—	———
25	RDG		
26	SRDATA	O	Serial data output
27	SCK	O	Serial bit clock output
28	LRCK	O	Clock output
29	XCK	O	Clock output (f=16.9344 MHz)
30	PMCK	—	———
31	CSEL	I	+5 V input
32	PSEL	—	Ground
33	×1	I	Clock input (f=16.9344 MHz)
34	×2	—	———
35	VSS	—	Ground

Pin No.	Mark	I/O Division	Function
9	TD−	O	Inverting output of tracking driver
10	TD+	O	Non-inverting output of tracking driver
11	FD−	O	Inverting output of focus driver
12	FD+	O	Non-inverting output of focus driver
13	TVD−	O	Inverting output of traverse driver
14	TVD+	O	Non-inverting output of traverse driver
15	RESET	O	Reset signal output
16	PC	I	PC input (connect to GND)

Pin No.	Mark	I/O Division	Function
36	SUBQ	O	Sub-code (Q data) output
37	SQCK	I	Sub-code (Q data) clock input f=7.3 kHz
38	/CLDCK	—	———
39	BLKCK	O	Sub-code block (Q data) clock f=75 Hz
40	DEMPH	O	De-emphasis ON signal output
41	MEMP	I	Enphasis signal input
42	MLD	I	Command load signal input
43	MCLK	I	Command clock signal input
44	MDATA	I	Command data input
45	DMUTE	I	Muting control signal input
46	SMCK	O	Clock output (f=4.2336 MHz)
47	STAT	O	Status signal output
48	CRC	—	———
49	SUBC	—	———
50	SBCK	I	Clock for sub-code serial output
51	/TRON	I	Tracking servo ON signal input
52	CLVS	O	Spindle servo signal output
53	PC	—	———
54	ECM	O	Spindle motor control signal output
55	ECS	O	Spindle motor control signal output
56	VDD	I	Power supply (+5 V input)
57	/TEST	I	+5 V input
58	SSEL	I	+5 V input
59	MSEL	—	———
60	RESY	—	———
61	DO	I	Drop out signal input
62	EFM	—	———
63	PCK		
64	PDO		

•IC704 (MN6650)

Pin No.	Mark	I/O Division	Function
1	TES	O	Tracking error signal output
2	PLAY	O	Play signal output
3	RFDET	I	RF detection signal input
4	DO	I	Dropout signal input
5	OFT	I	Off track signal input
6	ARF	I	RF signal input
7	WVEL	O	High speed status signal output
8	PBO	I	Potension buffer signal input
9	TE	I	Tracking error signal input
10	FE	I	Focus error signal input
11	VR2	I	A/D reference voltage input
12	VR1	I	A/D reference voltage input
13	LDON	O	Laser power control signal output
14	VSS	—	Ground
15	AVSS	—	Ground
16	AVDD	I	Power supply (+5 V input)
17	VDD	I	Power supply (+5 V input)
18	TRV	O	Traverse servo control output
19	VTD	O	Traverse drive output
20	FOD	O	Focus drive output
21	TRD	O	Tracking drive output
22	KICK	O	Track kick signal output

Pin No.	Mark	I/O Division	Function
23	/TEST	I	+5 V input
24	VSS	—	Ground
25	CLVS	I	Spindle servo signal input
26	/TRON	O	Tracking servo signal output
27	MDATA	I	Command data input
28	MCLK	I	Command clock signal input
29	MLD	I	Command load signal input
30	SENSE	O	Sense signal output
31	/FLOCK	O	Focus servo signal output
32	/TLOCK	I	Tracking servo signal output
33	/RST	I	Reset signal input (L: Reset)
34	XI	I	Clock input (fXI=16.9344 MHz)
35	TO	—	Open
36	T1		
37	T2		
38	T3		
39	T4	—	Ground
40	T5		
41	T6		
42	VDET	I	Vibration detecting signal input
43	TBAL	O	Tracking balance adjustment output
44	TRCRS	I	Track cross signal input

•IC705 (MN6475)

Pin No.	Mark	I/O Division	Function
1	LRCK	I	Clock input
2	BCLK	I	Serial data bit clock input
3	SRDATA	I	Serial data input
4	COT1	—	Ground
5	COT2		
6	TEST		
7	VDD	I	Power supply (+5 V input)
8	X2	—	Clock (f=33.8688 MHz)
9	X1		
10	VSS	—	Ground
11	AVDDL	I	Power supply (+5 V input)
12	OUT.L	O	AF signal output (Lch)

Pin No.	Mark	I/O Division	Function
13	AVSS.L	—	Ground
14	AVSS.R	—	Ground
15	OUT.R	O	AF signal output (Rch)
16	AVDD.R	I	Power supply input
17	/RST	I	Reset signal input
18	PWM	—	———
19	TP	—	Ground
20	WVEL	I	High speed status signal input
21	DEMPH	I	De-emphasis signal input
22	CSEL	I	+5 V input
23	192FS	—	———
24	768FS	O	Clock output (f=16.9344 MHz)

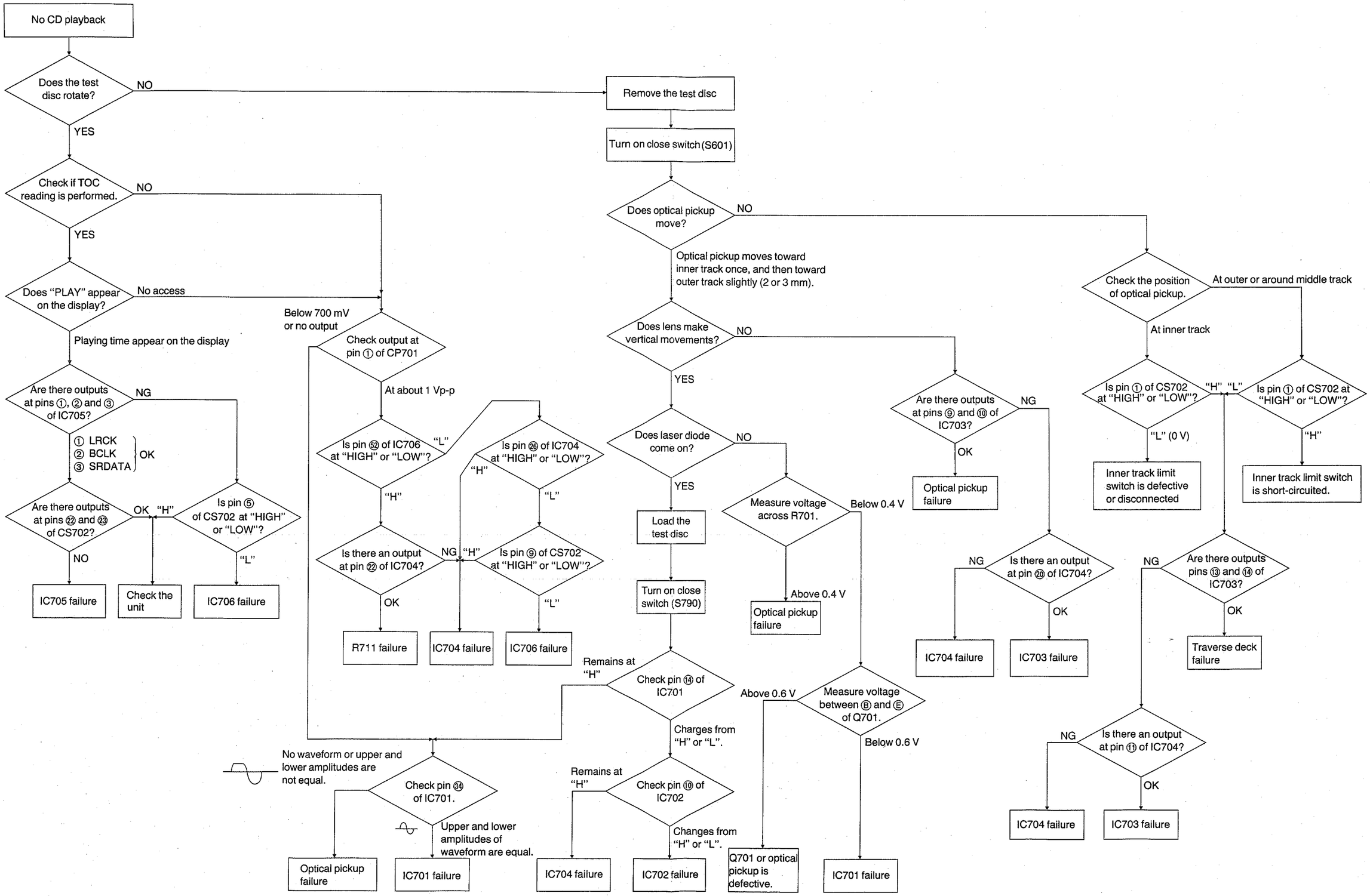
•IC601 (MN1872410RRY)

Pin No.	Mark	Function
1	VDD	Power supply (+5 V input)
2	OSC1	Clock output (4 MHz)
3	OSC2	Clock input (4 MHz)
4	VSS	GND
5	XI	Clock input (32 kHz)
6	XO	Clock output (32 kHz)
7	VREF–	A/D converter reference voltage (GND)
8	ADIN7	DECK 2 front side record prevention tab detection. "HIGH"...Recording is not possible "LOW"...Recording is possible
9	ADIN6	DECK 2 cassette tape insertion detection. "HIGH"...Playback is not possible "LOW"...Playback is possible
10	ADIN5	DECK1 cassette tape insertion detection. "HIGH"...Playback is not possible "LOW"...Playback is possible
11	ADIN4	Power supply circuit operation detection.
12	ADIN3	———
13	ADIN2	Operation signal input
14	ADIN1	
15	ADIN0	
16	VREF+	A/D converter reference voltage (+5 V)
17	BP3	———
18	MKCLK	Deck control data output
19	BEEP	Beep signal output
20	MKDAT	Deck control data output
21	PLL CE	PLL tuner strove signal output
22	PLL DI	PLL tuner data signal output
23	PLL CL	PLL tuner clock signal output
24	M/$\overline{ST}$	Tuner stereo/mono select signal output
25	$\overline{STEREO}$	Tuner stereo signal input
26	$\overline{TUNED}$	Tuning signal input
27	ATT6	ATLS control signal output
28	CD SLOSE	CD cover open/close detection signal input
29	MUTE A	AF muting signal output
30	POWER CONT	Power AMP control signal output
31	REMOCON IN	Remote control signal input
32	BLKCK	CD sub code block clock signal input
33	$\overline{MCD\ OUT}$	CD line out control
34	RESET	CD reset signal input

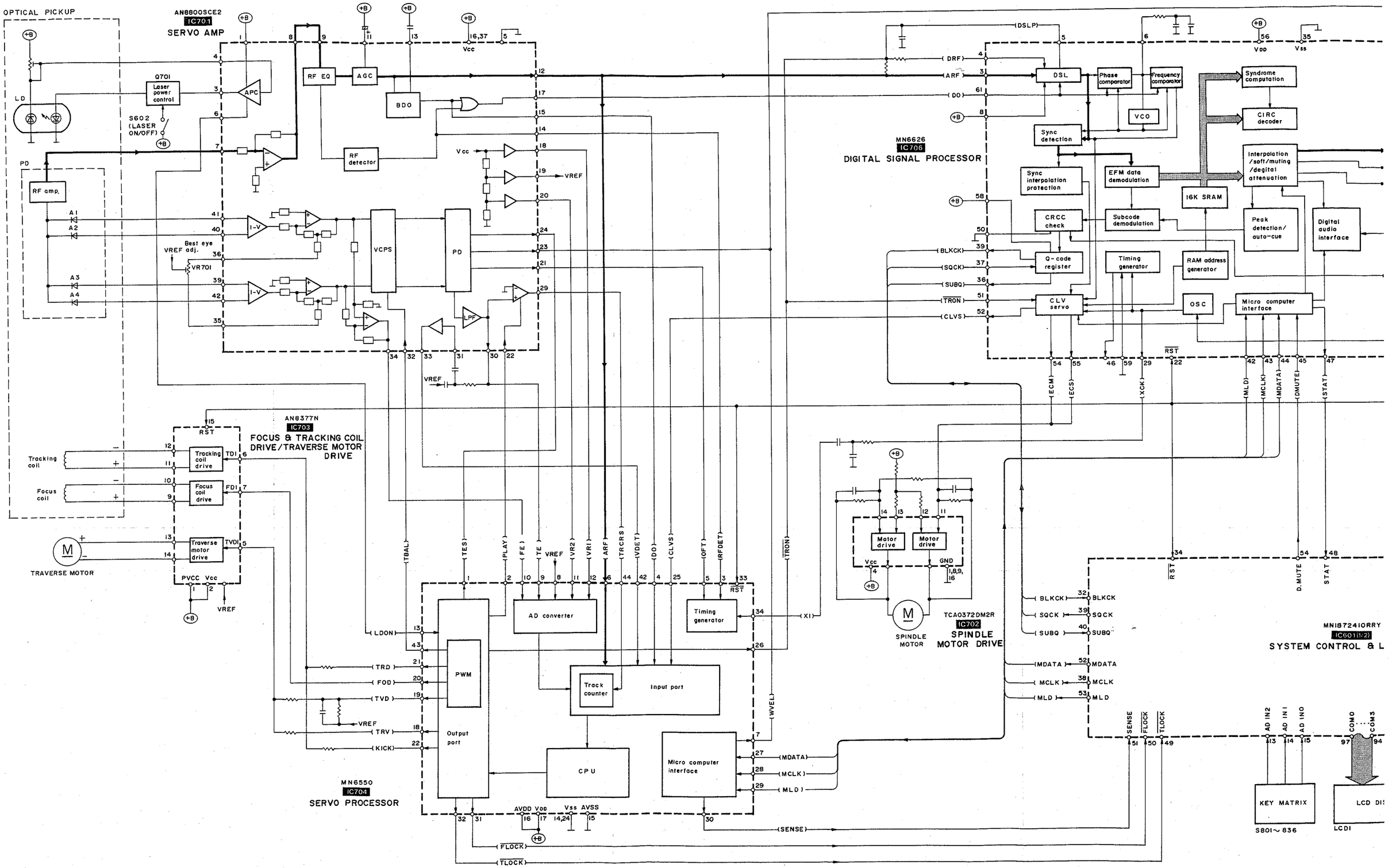
Pin No.	Mark	Function
35	RST	System control reset signal input
36	VOL UP	Motor (for Volume) control signal output
37	VOL DOWN	Motor (for Volume) control signal output
38	MCLK	CD signal process IC control signal output
39	SQCD	CD sub-code clock input
40	SUBQ	CD sub-code data input
41	SBOO	———
42	SYNC	———
43	CM	———
44	P77	———
45	9K/10K	AM tuning step select terminal
46	RESET SW	Reset switch (S701) signal input
47	P74	———
48	STAT	CD status signal input
49	TLOCK	CD tracking signal input
50	FLOCK	CD focus lock signal input
51	SENSE	CD sense signal input
52	MDATA	CD signal process IC data output
53	MLD	CD signal process strove signal input
54	DMUTE	CD muting signal output
55	FUNCTION	Power supply control signal output
56	ATT3	ATLS control signal output
57	TAPE H	Input selector control signal output (TAPE)
58	CD H	Input selector control signal output (CD)
59	TUNER H	Input selector control signal output (TUNER)
60	DES 1	———
61	DES 2	———
62	—	———
63	REMOCON STBY	Remote control sensor power control
64	—	———
65	—	———
66 ~ 94	SEG 27 ~ SEG 0	LCD segment signal output
95 ~ 97	COM 2 ~ COM 0	LCD common signal output
98	VLC3	LCD bias reference voltage input V3
99	VLC2	LCD bias reference voltage input V2
100	VLC1	LCD bias reference voltage input V1

RX-DT55

■ TROUBLESHOOTING GUIDE



■ BLOCK DIAGRAM •CD CIRCUIT



MN6626
IC706
DIGITAL SIGNAL PROCESSOR

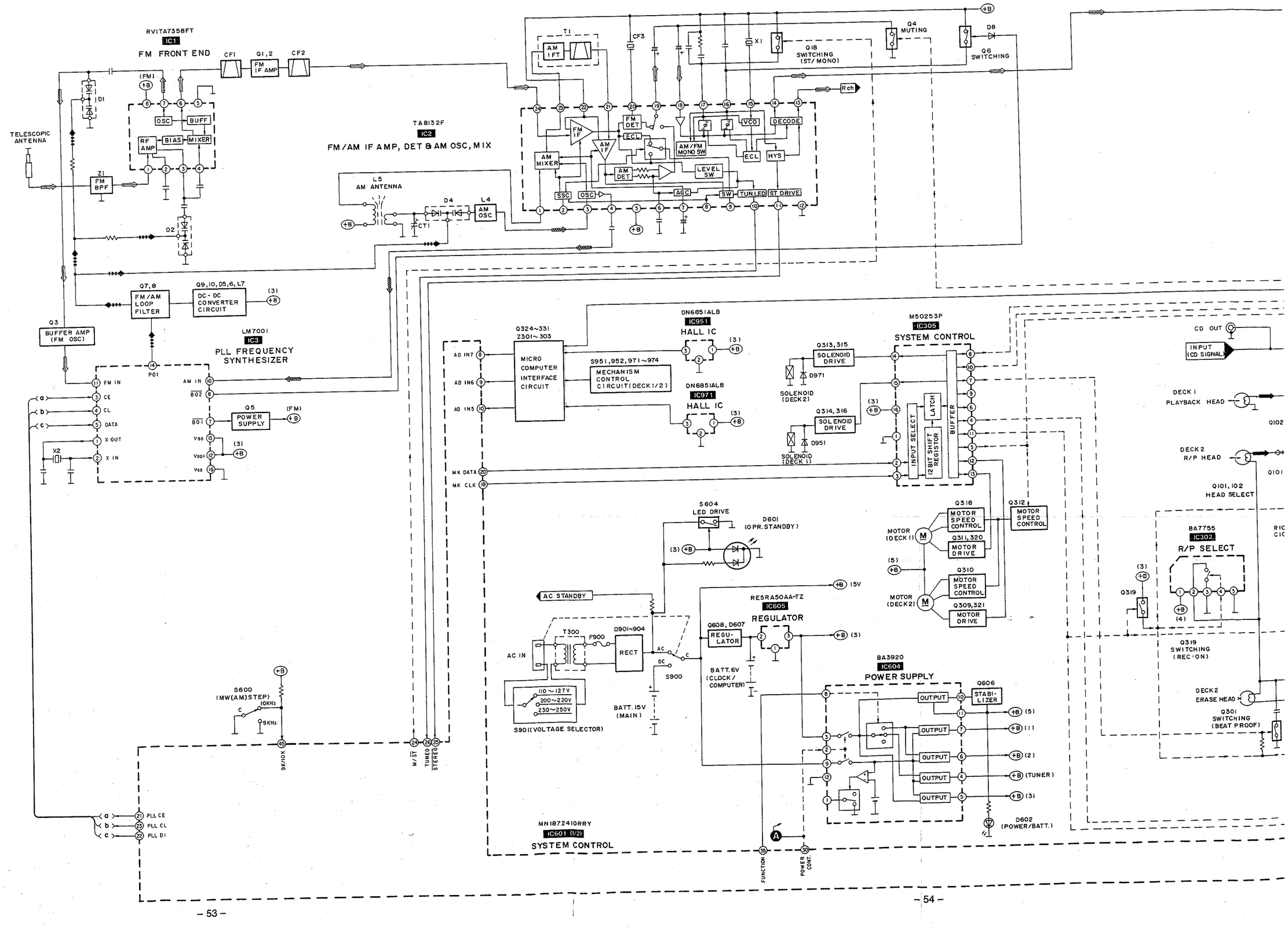
MN6475-TI
IC705
DIGITAL FILTER & D/A CONVERTER

MN18724IORRY
IC601(1-2)
SYSTEM CONTROL & LCD DRIVE

TCA0372DM2R
IC702
SPINDLE MOTOR DRIVE

S8053HNB-T
IC609
RESET SIGNAL GENERATOR

■ BLOCK DIAGRAM •TUNER, TAPE DECK, SYSTEM CONTROL AND AF CIRCUIT



Note:
- : FM SIGNAL LINE
- : FM OSC SIGNAL LINE
- : AM OSC SIGNAL LINE
- : FM/AM Vcap CONTROL SIGNAL LINE
- : PLAYBACK(DECK1·2) SIGNAL LINE
- : CD SIGNAL LINE
- : MAIN SIGNAL LINE
- : REC SIGNAL LINE
- : MIC SIGNAL LINE

TA2011S
IC603
MIC AMP
MIX MIC
ALC
Rch
+B 9.2V

MC14066BCP
IC608
INPUT SELECTOR (CD/TUNER)
+B (3)

Q401, 404
TONE/XBS AMP
VR601(XBS)
VR603(TONE)

VR602 (VOLUME)

S609
OVER LOAD DET.

AN7134N-R
IC606
POWER AMP
15V +B
STANDBY
REGULATOR /RIPPLE FILTER
(4) +B

(TWEETER) CERAMIC SPEAKER 2cm
(WOOFER) PM DYNAMIC SPEAKER 12cm, 2.7Ω
HEADPHONES

M51167AFP-TB
IC301 (1/2)
P.B EQ/TPS AMP
Q102
Q101
TPS
(4) +B
CR NETWORK
Q103 P.B EQ (HIGH SPEED)

Q402 MUTING
Q607 MUTING CONT.
Q108 SWITCHING

MC14066BCP
IC607
INPUT SELECTOR (TAPE)
+B (3)

M51167AFP-TB
IC301 (1/2)
REC AMP/ALC
R102, C101
REC EQ
SW
ALC
CR NETWORK
Q104, Q105
TAPE SELECT/ REC EQ (CrO2/NORMAL)
S975
S953

Q111 SWITCHING

Q403 ATTENUATOR (ATLS)

(4) +B
L301
Q307,308
BIAS OSC
Q305, 306
BIAS OSC CONTROL (CrO2/NORMAL)
Q303 SWITCHING (REC·ON)
D301
D302

BA6418N
IC602
MOTOR DRIVE
DRIVE
PRE AMP
LOGIC
+B

Q605 MUTING CONTROL

MOD OUT
TUNER H
CD H
TAPE H
ATT3
ATT6
MUTE A

■ REPLACEMENT PARTS LIST

Notes : * Important safety notice:
Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.
* The parenthesized indications in the Remarks columns specify the areas. (Refer to the cover page for area.)
Parts without these indications can be used for all areas.

Ref. No.	Part No.	Part Name & Description	Remarks
		INTEGRATED CIRCUIT(S)	
IC1	RVITA7358FT	I. C, FM FRONT END	
IC2	TA8132F	I. C, IF AMP, DET.	
IC3	LM7001	I. C, PLL	
IC301	M51167AFP	I. C, P. B. EQ., REC AMP	
IC302	BA7755	I. C, R/P SELECT	
IC305	M50253P	I. C, SYSTEM CONTROL	
IC601	MN1872410RRY	I. C, SYSTEM CONT. /LCD DRIVE	
IC602	BA6418N	I. C, MOTOR DRIVE	
IC603	TA2011S	I. C, MIC AMP	
IC604	BA3920	I. C, POWER SUPPLY CONT.	
IC605	RE5RA50AA-TZ	I. C, REGULATOR	
IC606	AN7134N-R	I. C, POWER AMP	
IC607, 608	MC14066BCP	I. C, INPUT SELECTOR	
IC609	S8053HNB-T	I. C, RESET SIGNAL GENERATOR	
IC701	AN8800SCE2	I. C, SERVO AMP	
IC702	TCA0372DM2R	I. C, SPINDLE MOTOR DRIVE	
IC703	AN8377N	I. C, TRAVERSE MOTOR DRIVE	
IC704	MN6650	I. C, DIGITAL SERVO PROCESSOR	
IC705	MN6475	I. C, DIGITAL FIL. D/A CONV.	
IC706	MN6626	I. C, DIGITAL SIGNAL PRO.	
IC951	DN6851ALB	I. C, HALL IC	
IC971	DN6851ALB	I. C, HALL IC	
		TRANSISTOR(S)	
Q1, 2	2SC3313B	TRANSISTOR	
Q3	2SC1674LTA	TRANSISTOR	
Q4	2SC3311R	TRANSISTOR	
Q5, 6	RVTDTA143XST	TRANSISTOR	
Q7-9	2SC3311R	TRANSISTOR	
Q10	2SC3311R	TRANSISTOR	
Q18	2SK381CTA	TRANSISTOR	
Q101, 102	2SJ40CDTA	TRANSISTOR	
Q103-105	RVTDTC144TST	TRANSISTOR	
Q108	2SJ40CDTA	TRANSISTOR	
Q111	RVTDTC144TST	TRANSISTOR	
Q201, 202	2SJ40CDTA	TRANSISTOR	
Q203-205	RVTDTC144TST	TRANSISTOR	
Q208	2SJ40CDTA	TRANSISTOR	
Q211	RVTDTC144TST	TRANSISTOR	
Q301	2SC3311AR	TRANSISTOR	
Q303	2SD1450RTA	TRANSISTOR	
Q305	UN4217TA	TRANSISTOR	
Q306	2SC3311R	TRANSISTOR	
Q307, 308	2SD1450RTA	TRANSISTOR	
Q309	2SD965Q	TRANSISTOR	
Q310	2SK381BCDTA	TRANSISTOR	
Q311	2SD965Q	TRANSISTOR	
Q312	RVTDTC144TST	TRANSISTOR	
Q313, 314	2SB621R	TRANSISTOR	
Q315, 316	UN4216-S	TRANSISTOR	
Q318	2SK381BCDTA	TRANSISTOR	
Q319-321	UN411FTA	TRANSISTOR	
Q324-328	2SC3311R	TRANSISTOR	
Q329	UN4215	TRANSISTOR	
Q330, 331	2SC3311R	TRANSISTOR	
Q401	2SC3312RTA	TRANSISTOR	
Q402	2SC3311R	TRANSISTOR	
Q403	UN4213	TRANSISTOR	
Q404	2SC3312RTA	TRANSISTOR	
Q501	2SC3312RTA	TRANSISTOR	
Q502	2SC3311R	TRANSISTOR	
Q503	UN4213	TRANSISTOR	
Q504	2SC3312RTA	TRANSISTOR	
Q601	UN4217TA	TRANSISTOR	
Q602	2SA1309R	TRANSISTOR	
Q603	UN421FTA	TRANSISTOR	
Q604	UN4211	TRANSISTOR	
Q605	UN4219TA	TRANSISTOR	
Q606	2SB1393AU	TRANSISTOR	
Q607	UN4110TA	TRANSISTOR	
Q608	2SC1684RTA	TRANSISTOR	
Q609	2SC3311R	TRANSISTOR	
Q701	2SB709S	TRANSISTOR	
		DIODE(S)	
D1, 2	1SV147T4MATU	DIODE	
D3	MA4051MTA	DIODE	
D4	KV1560NT	DIODE	
D5	MA4130M	DIODE	
D6	MA165	DIODE	
D8, 9	MA165	DIODE	
D301	RVD1SS133TA	DIODE	
D302	RVDMTZ4R7BTA	DIODE	
D303, 304	RVD1SS133TA	DIODE	
D600	MA4160M	DIODE	
D601	LN021529P	L. E. D	
D603, 604	RVD1SS133TA	DIODE	
D605	RVDMTZ6R8BTA	DIODE	
D606	RVD1SS133TA	DIODE	

Ref. No.	Part No.	Part Name & Description	Remarks
D607	MA4100MTA	DIODE	
D608	RB441QT91	DIODE	
D609, 610	RVD1SS133TA	DIODE	
D615	RVD1SS133TA	DIODE	
D616, 617	RVDMTZ6R8BTA	DIODE	
D618	RVDMTZ6R8CTA	DIODE	
D701	MA110TW	DIODE	
D901-904	RVDP300DLF	DIODE	
D905	RB441QT91	DIODE	
D951	RVD1SS133TA	DIODE	
D971	RVD1SS133TA	DIODE	
		VARIABLE RESISTOR(S)	
VR301	RVNCC14B1T-A	V. R, TAPE SPEED(2)	
VR302	RVNCC24B1T-A	V. R, TAPE SPEED	
VR303	RVNCC73B1T-A	V. R, TAPE SPEED(1)	
VR601	EWAGS2C95D54	V. R, XBS LEVEL	
VR602	EWC08A027B54	V. R, VOLUME	
VR603	EWAGQ2C95G54	V. R, TONE	
VR701	EVNDXAA00B14	V. R, BEST EYE	
		COMPONENT COMBINATION(S)	
Z1	RXABPWB6A	COMPONENT COMBINATION	
Z301-303	EXBF6L306SYV	COMPONENT COMBINATION	
Z601	RCD0002	COMPONENT COMBINATION	
Z602	RAT0007	COMPONENT COMBINATION	
		COIL(S)	
L3	RLQZP4R7KT-Y	COIL	
L4	RL02B124-T	COIL	
L5	RLV2C001-0	COIL	
L7	RL09B18-M	COIL	
L8	RLQZP101KT-Y	COIL	
L15	RLQZP221KT-Y	COIL	
L16, 17	RLQZP4R7KT-Y	COIL	
L301	RL08C002M-T	COIL	
L302, 303	RLQZB470KT-D	COIL	
L601, 602	RLL500050T-Y	COIL	
L603-612	RLQZP2R2KT-Y	COIL	
L615, 616	RLQZP2R2KT-Y	COIL	
L618	RLQZP2R2KT-Y	COIL	
L620-622	RLQZP2R2KT-Y	COIL	
L624-628	RLQZP2R2KT-Y	COIL	
L630-635	RLQZP2R2KT-Y	COIL	
L637	RLQZP2R2KT-Y	COIL	
L640-644	RLQZP2R2KT-Y	COIL	
L647, 648	RLQZP2R2KT-Y	COIL	
		TRANSFORMER(S)	

Ref. No.	Part No.	Part Name & Description	Remarks
T1	RLI2B470-T	TRANSFORMER	
T300 ⚠	RTP1L1E004-C	POWER TRANSFORMER	
		FILTER(S)	
CF1, 2	RLFFETWLA02D	CERAMIC FILTER	
CF3	RLFDFTA01D	CERAMIC FILTER	
		OSCILLATOR(S)	
X1	RSXZ456KM01	OSCILLATOR	
X2	RSXC7M20S03	OSCILLATOR	
X601	RSXD32K7F02	OSCILLATOR	
X602	RVBCSA3R9MGT	OSCILLATOR	
X701	RSXZ33M8M01T	OSCILLATOR	
		FUSE(S)	
F900 ⚠	XBA2C31TB0U	FUSE	
		SWITCH(ES)	
S600	ESD1521201	SW, FREQ. STEP SELECTOR	
S601	RSH1A012-U	SW, CD COVER OPEN/CLOSE	
S602	RSH1A012-U	SW, LASER ON/OFF	
S701	SSHD5-E	SW, REST	
S801	EVQ21405R	SW, CD SET	
S802	EVQ21405R	SW, TIME ADJUST	
S803	EVQ21405R	SW, EDIT HIGH	
S804	EVQ21405R	SW, ATLS	
S805	EVQ21405R	SW, TIMER CHECK	
S806	EVQ21405R	SW, EDIT NORMAL	
S807	EVQ21405R	SW, P. TUNING(-)	
S808	EVQ21405R	SW, M. TUNING(-)	
S809	EVQ21405R	SW, REC PAUSE	
S810	EVQ21405R	SW, TAPE LENGTH	
S811	EVQ21405R	SW, PLAY-TIMER	
S812	EVQ21405R	SW, REV MODE	
S813	EVQ21405R	SW, CD SKIP/SEARCH	
S814	EVQ21405R	SW, SLEEP	
S815	EVQ21405R	SW, DECK PLAY	
S816	EVQ21405R	SW, TUNING MEMORY	
S817	EVQ21405R	SW, REC-TIMER	
S818	EVQ21405R	SW, DECK FAST/TPS	
S819	EVQ21405R	SW, P. TUNING(+)	
S820	EVQ21405R	SW, M. TUNING(+)	
S821	EVQ21405R	SW, COUNTER RESET	
S822	EVQ21405R	SW, CD SKIP/SEARCH	
S823	EVQ21405R	SW, BEEP	
S824	EVQ21405R	SW, DECK SELECT	
S825	EVQ21405R	SW, EDIT MODE	

Ref. No.	Part No.	Part Name & Description	Remarks
S826	EVQ21405R	SW, FUNCTION	
S827	EVQ21405R	SW, DECK FAST/TPS	
S828	EVQ21405R	SW, FM MODE/B. P.	
S829	EVQ21405R	SW, TUNER/BAND	
S830	EVQ21405R	SW, DECK PLAY	
S831	EVQ21405R	SW, CD PAUSE	
S832	EVQ21405R	SW, FUNCTION	
S833	EVQ21405R	SW, DECK STOP	
S834	EVQ21405R	SW, CD STOP	
S835	EVQ21405R	SW, OPERATION	
S836	EVQ21405R	SW, CD PLAY	
S900 ⚠	RJJ1SE01-H	SW, AC/DC	
S901 ⚠	RSR3A01ZA-H	SW, VOLTAGE SELECTOR	
S951	RSH1A89Z	SW, MODE DETECT (1)	
S952	RSH1A90YB-U	SW, TAPE DETECT (1)	
S953	RSH1A90YB-U	SW, CrO2 DETECT (1)	
S971	RSH1A89Z	SW, MODE DETECT (2)	
S972	RSH1A90YB-U	SW, TAPE DETECT (2)	
S973	RSH1A90YB-U	SW, REC TAB DETECT (2)	(REV)
S974	RSH1A90YB-U	SW, REC TAB DETECT (2)	(FWD)
S975	RSH1A90YB-U	SW, CrO2 DETECT (2)	
		CONNECTOR	
CM801	RJS1A1704	SOCKET (4P)	
CP1	RJP8G18ZA	CONNECTOR	
CP301	RJP5G18ZA	CONNECTOR	
CP302	SJTD413	CONNECTOR	
CP307	SJTD1013	CONNECTOR	
CP309	RJP9G18ZA	CONNECTOR	
CP601	RJP4G9YA	CONNECTOR	
CP701, 702	RJP2G17ZA	CONNECTOR	
CP703	RJP4G17ZA	CONNECTOR	
CP901	RJP4G9YA	CONNECTOR	
CP902	RJP3G9YA	CONNECTOR	
CS2	RJS1A5207	SOCKET	
CS601	RJS1A6823	SOCKET	
CS701	RJU035T016-1	SOCKET	
CS702	RJS1A6723-1Q	SOCKET	
		TRIMMER	
CT1	RCV10AF1T-S	TRIMMER CAPACITOR	
		IC PROTECTOR(S)	
IP601	RAHICPN15TA	IC PROTECTOR	
IP602, 603	RAHICPN5TA	IC PROTECTOR	
		JACK(S)	
JK601	RJJD7S2YA-C	JACK, HEADPHONES	

Ref. No.	Part No.	Part Name & Description	Remarks
JK602	RJF1099ZA	JACK, CD OUT	
JK603	RJJ1D25ZA-C	JACK, MIX MIC	
JK900 ⚠	RJJ1SE01-H	JACK, AC IN	

Notes : * Capacity valuse are in microfarads (uF) unless specified otherwise, P=Pico-farads(pF) F=Farads(F)
* Resistance values are in ohms, unless specified otherwise, 1K=1,000(OHM) , 1M=1,000k(OHM)

Ref. No.	Part No.	Values & Remarks
		RESISTORS
R2, 3	ERDS2TJ104	1/4W 100K
R4	ERDS2TJ470	1/4W 47
R5	ERDS2TJ151	1/4W 150
R6	ERDS2TJ331	1/4W 330
R7	ERDS2TJ391	1/4W 390
R8	ERDS2TJ564	1/4W 560K
R9	ERDS2TJ105T	1/4W 1M
R10	ERDS2TJ561	1/4W 560
R11	ERDS2TJ330	1/4W 33
R12	ERDS2TJ104	1/4W 100K
R13	ERDS2TJ470	1/4W 47
R14	ERDS2TJ101	1/4W 100
R15	ERDS2TJ102	1/4W 1K
R16, 17	ERDS2TJ104	1/4W 100K
R18	ERDS2TJ103	1/4W 10K
R20	ERDS2TJ332	1/4W 3.3K
R21	ERDS2TJ562	1/4W 5.6K
R22	ERDS2TJ473	1/4W 47K
R23	ERDS2TJ102	1/4W 1K
R24, 25	ERDS2TJ103	1/4W 10K
R27	ERDS2TJ151	1/4W 150
R28, 29	ERDS2TJ471	1/4W 470
R30	ERDS2TJ104	1/4W 100K
R31	ERDS2TJ222	1/4W 2.2K
R32	ERDS2TJ473	1/4W 47K
R33-38	ERDS2TJ103	1/4W 10K
R39	ERDS2TJ102	1/4W 1K
R40	ERDS2TJ223	1/4W 22K
R60	ERDS2TJ274	1/4W 270K
R61	ERDS2TJ332	1/4W 3.3K
R62, 63	ERDS2TJ681	1/4W 680
R102	ERDS2TJ123	1/4W 12K
R103	ERDS2TJ122	1/4W 1.2K
R105	ERDS2TJ300T	1/4W 30
R106	ERDS2TJ392T	1/4W 3.9K
R107	ERDS2TJ682T	1/4W 6.8K
R108	ERDS2TJ222	1/4W 2.2K
R109	ERDS2TJ104	1/4W 100K
R110	ERDS2TJ154	1/4W 150K
R111	ERDS2TJ473	1/4W 47K
R112	ERDS2TJ472	1/4W 4.7K
R113	ERDS2TJ332	1/4W 3.3K
R115	ERDS2TJ225	1/4W 2.2M
R116	ERDS2TJ105T	1/4W 1M
R120	ERDS2TJ822	1/4W 8.2K
R124	ERDS2TJ104	1/4W 100K
R130	ERDS2TJ822	1/4W 8.2K
R202	ERDS2TJ123	1/4W 12K
R203	ERDS2TJ122	1/4W 1.2K
R205	ERDS2TJ330	1/4W 33
R206	ERDS2TJ392T	1/4W 3.9K
R207	ERDS2TJ682T	1/4W 6.8K
R208	ERDS2TJ222	1/4W 2.2K
R209	ERDS2TJ104	1/4W 100K
R210	ERDS2TJ154	1/4W 150K
R211	ERDS2TJ473	1/4W 47K
R212	ERDS2TJ472	1/4W 4.7K
R213	ERDS2TJ332	1/4W 3.3K
R215	ERDS2TJ225	1/4W 2.2M
R216	ERDS2TJ105T	1/4W 1M
R220	ERDS2TJ822	1/4W 8.2K
R224	ERDS2TJ104	1/4W 100K
R230	ERDS2TJ822	1/4W 8.2K
R301	ERDS2TJ334	1/4W 330K
R302	ERDS2TJ102	1/4W 1K
R303	ERDS2TJ103	1/4W 10K
R305	ERDS2TJ102	1/4W 1K
R306	ERDS2TJ472	1/4W 4.7K
R308	ERDS2TJ822	1/4W 8.2K
R309	ERDS2TJ1R2	1/4W 1.2
R310	ERDS2TJ103	1/4W 10K
R311, 312	ERDS2TJ472	1/4W 4.7K
R313	ERDS2TJ332	1/4W 3.3K
R314	ERDS2TJ102	1/4W 1K
R315	ERDS2TJ221	1/4W 220
R316	ERDS2TJ2R7T	1/4W 2.7
R317	ERDS2TJ562	1/4W 5.6K
R318	ERDS2TJ153	1/4W 15K
R319	ERDS2TJ183T	1/4W 18K
R320	ERDS2TJ334	1/4W 330K
R321	ERDS2TJ221	1/4W 220
R322	ERDS2TJ2R7T	1/4W 2.7
R323	ERDS2TJ123	1/4W 12K
R325	ERDS2TJ123	1/4W 12K
R326	ERDS2TJ272T	1/4W 2.7K
R327	ERDS2TJ334	1/4W 330K
R328	ERDS2TJ123	1/4W 12K
R329	ERDS1VJ680T	1/2W 68
R330	ERDS2TJ104	1/4W 100K
R331	ERDS2TJ332	1/4W 3.3K
R332	ERDS2TJ474	1/4W 470K
R333	ERDS2TJ472	1/4W 4.7K
R334	ERDS2TJ102	1/4W 1K
R336	ERDS2TJ223	1/4W 22K
R337	ERDS2TJ2R7T	1/4W 2.7
R338	ERDS2TJ103	1/4W 10K
R339	ERDS2TJ2R7T	1/4W 2.7
R340	ERDS2TJ334	1/4W 330K
R346	ERDS2TJ472	1/4W 4.7K
R348, 349	ERDS2TJ472	1/4W 4.7K
R350	ERDS2TJ473	1/4W 47K
R351	ERDS2TJ472	1/4W 4.7K
R352, 353	ERDS2TJ473	1/4W 47K
R355	ERDS2TJ473	1/4W 47K
R356	ERDS2TJ335T	1/4W 3.3M
R357	ERDS2TJ222	1/4W 2.2K
R358, 359	ERDS2TJ472	1/4W 4.7K
R360	ERDS2TJ102	1/4W 1K
R361, 362	ERDS2TJ104	1/4W 100K
R364	ERDS2TJ104	1/4W 100K
R365	ERDS2TJ222	1/4W 2.2K
R366	ERDS2TJ103	1/4W 10K
R400	ERDS2TJ103	1/4W 10K
R401	ERDS2TJ105T	1/4W 1M
R402	ERDS2TJ682T	1/4W 6.8K
R403	ERDS2TJ152	1/4W 1.5K
R404	ERDS2TJ223	1/4W 22K
R405	ERDS2TJ104	1/4W 100K
R406	ERDS2TJ391	1/4W 390
R407	ERDS2TJ682T	1/4W 6.8K
R408, 409	ERDS2TJ103	1/4W 10K
R410	ERDS2TJ154	1/4W 150K
R411	ERDS2TJ683	1/4W 68K
R412	ERDS2TJ473	1/4W 47K
R413	ERDS2TJ823T	1/4W 82K
R414	ERDS2TJ103	1/4W 10K
R415	ERDS2TJ153	1/4W 15K
R416	ERDS2TJ183T	1/4W 18K
R417	ERDS2TJ473	1/4W 47K
R418	ERDS2TJ821	1/4W 820
R419	ERDS2TJ2R2T	1/4W 2.2
R420	ERDS2TJ221	1/4W 220
R421	ERDS2TJ224T	1/4W 220K
R422	ERDS2TJ181T	1/4W 180
R423	ERDS2TJ564	1/4W 560K
R424	ERDS2TJ123	1/4W 12K
R425	ERDS2TJ223	1/4W 22K
R426	ERDS2TJ472	1/4W 4.7K
R500	ERDS2TJ103	1/4W 10K
R501	ERDS2TJ105T	1/4W 1M
R502	ERDS2TJ682T	1/4W 6.8K
R503	ERDS2TJ152	1/4W 1.5K
R504	ERDS2TJ223	1/4W 22K
R505	ERDS2TJ104	1/4W 100K

Ref. No.	Part No.	Values & Remarks
R506	ERDS2TJ391	1/4W 390
R507	ERDS2TJ682T	1/4W 6.8K
R508, 509	ERDS2TJ103	1/4W 10K
R510	ERDS2TJ154	1/4W 150K
R511	ERDS2TJ683	1/4W 68K
R512	ERDS2TJ473	1/4W 47K
R513	ERDS2TJ823T	1/4W 82K
R514	ERDS2TJ103	1/4W 10K
R515	ERDS2TJ153	1/4W 15K
R516	ERDS2TJ183T	1/4W 18K
R517	ERDS2TJ473	1/4W 47K
R518	ERDS2TJ821	1/4W 820
R519	ERDS2TJ2R2T	1/4W 2.2
R520	ERDS2TJ221	1/4W 220
R521	ERDS2TJ224T	1/4W 220K
R522	ERDS2TJ181T	1/4W 180
R523	ERDS2TJ564	1/4W 560K
R524	ERDS2TJ123	1/4W 12K
R525	ERDS2TJ223	1/4W 22K
R526	ERDS2TJ472	1/4W 4.7K
R601	ERDS2TJ1R5T	1/4W 1.5
R602-605	ERDS2TJ104	1/4W 100K
R606	ERDS2TJ473	1/4W 47K
R607, 608	ERDS2TJ103	1/4W 10K
R609-612	ERDS2TJ102	1/4W 1K
R613-615	ERDS2TJ472	1/4W 4.7K
R616	ERDS2TJ103	1/4W 10K
R617	ERDS2TJ474	1/4W 470K
R618, 619	ERDS2TJ472	1/4W 4.7K
R622	ERDS2TJ474	1/4W 470K
R623	ERDS2TJ472	1/4W 4.7K
R624	ERDS2TJ103	1/4W 10K
R625	ERDS2TJ472	1/4W 4.7K
R626-628	ERDS2TG103T	1/4W 10K
R629, 630	ERDS2TJ223	1/4W 22K
R631	ERDS2EJ121	1/4W 120
R632	ERDS2TJ221	1/4W 220
R633	ERDS2TJ271	1/4W 270
R634	ERDS2TJ561	1/4W 560
R635	ERDS2TJ104	1/4W 100K
R636, 637	ERDS2TJ103	1/4W 10K
R638	ERDS2TJ224T	1/4W 220K
R639	ERDS2TJ106T	1/4W 10M
R640	ERDS2TJ105T	1/4W 1M
R641	ERDS2TJ102	1/4W 1K
R642	ERDS2TJ183T	1/4W 18K
R643	ERDS2TJ563	1/4W 56K
R644	ERDS2TJ104	1/4W 100K
R645	ERDS2TJ823T	1/4W 82K
R646-648	ERDS2TJ103	1/4W 10K
R649, 650	ERDS2TJ474	1/4W 470K
R652, 653	ERDS2TJ104	1/4W 100K

Ref. No.	Part No.	Values & Remarks
R654	ERDS2TJ333	1/4W 33K
R655	ERDS2TJ683	1/4W 68K
R656	ERDS2TJ222	1/4W 2.2K
R657	ERDS2TJ472	1/4W 4.7K
R658	ERDS2TJ102	1/4W 1K
R660	ERDS2TJ332	1/4W 3.3K
R663	ERDS2TJ105T	1/4W 1M
R666	ERDS2TJ471	1/4W 470
R667	ERDS2TJ472	1/4W 4.7K
R668	ERDS2TJ1R5T	1/4W 1.5
R669	ERDS2TJ472	1/4W 4.7K
R670	ERDS2TJ103	1/4W 10K
R671	ERDS2TJ473	1/4W 47K
R672	ERDS2TJ822	1/4W 8.2K
R673	ERDS2TJ473	1/4W 47K
R674	ERDS2TJ153	1/4W 15K
R675	ERDS2TJ223	1/4W 22K
R676	ERDS2TJ104	1/4W 100K
R678	ERDS2TJ223	1/4W 22K
R679	ERDS2TJ473	1/4W 47K
R680, 681	ERDS2TJ474	1/4W 470K
R682	ERDS2TJ181T	1/4W 180
R683	ERDS2TJ271	1/4W 270
R701	ERJ6GEYJ100	1/10W 10
R702	ERJ6GEYJ471V	1/10W 470
R703	ERJ6GEYJ102V	1/10W 1K
R704	ERJ6GEYJ103V	1/10W 10K
R706	ERJ6GEYJ473V	1/10W 47K
R707	ERJ6GEYJ222V	1/10W 2.2K
R708	ERJ6GEYJ683V	1/10W 68K
R709	ERJ6GEYJ122V	1/10W 1.2K
R710	ERJ6GEYJ182V	1/10W 1.8K
R711	ERJ6GEYJ473V	1/10W 47K
R712	ERJ6GEYJ471V	1/10W 470
R714	ERJ6GEYJ473V	1/10W 47K
R715	ERJ6GEYJ223V	1/10W 22K
R716	ERJ6GEYJ104V	1/10W 100K
R717	ERJ6GEYJ682V	1/10W 6.8K
R718	ERJ6GEYJ223V	1/10W 22K
R719	ERJ6GEYJ123V	1/10W 12K
R720	ERJ6GEYJ273V	1/10W 27K
R721	ERJ6GEYJ823	1/10W 82K
R722	ERJ6GEYJ102V	1/10W 1K
R723, 724	ERJ6GEYJ104V	1/10W 100K
R725	ERJ6GEYJ471V	1/10W 470
R726	ERJ6GEYJ102V	1/10W 1K
R729, 730	ERJ6GEYJ102V	1/10W 1K
R731	ERJ8GEYJ470V	1/8W 47
R732	ERJ6GEYJ562V	1/10W 5.6K
R733	ERJ6GEYJ332V	1/10W 3.3K
R734	ERJ6GEYJ562V	1/10W 5.6K
R735	ERJ6GEYJ222V	1/10W 2.2K

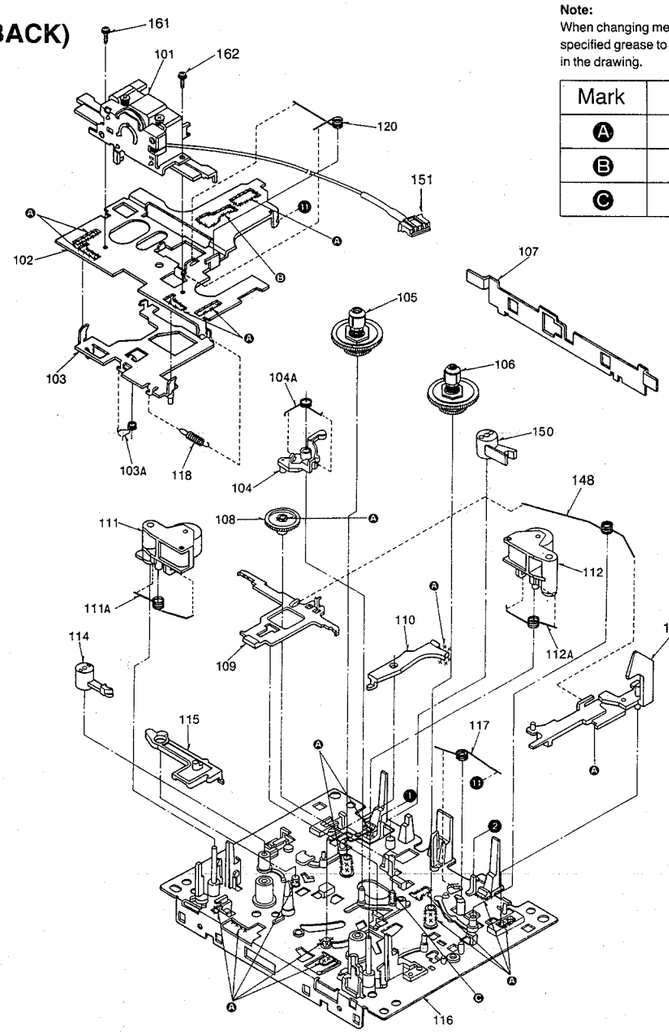
Ref. No.	Part No.	Values & Remarks
R736	ERJ6GEYJ682V	1/10W 6.8K
R737-739	ERJ6GEYJ562V	1/10W 5.6K
R741-743	ERJ6GEYJ102V	1/10W 1K
R744	ERJ6GEYJ393V	1/10W 39K
R745, 746	ERJ6GEYJ102V	1/10W 1K
R747	ERJ6GEYJ473V	1/10W 47K
R748	ERJ8GEYJ180V	1/8W 18
R801, 802	ERDS2TYG563T	1/4W 56K
R803-805	ERDS2TYG183T	1/4W 18K
R806-808	ERDS2TYG103T	1/4W 10K
R809-811	ERDS2TYG562T	1/4W 5.6K
R812-814	ERDS2TYG392T	1/4W 3.9K
R815-817	ERDS2TYG272T	1/4W 2.7K
R818-820	ERDS2TYG222T	1/4W 2.2K
R821-823	ERDS2TYG152T	1/4W 1.5K
R824-826	ERDS2TYG122T	1/4W 1.2K
R827-832	ERDS2TYG102T	1/4W 1K
R833	ERDS2TYG563T	1/4W 56K
R901	ERDS2TJ681	1/4W 680
		CHIP JUMPER
RJ701	ERJ6GEY0R00V	1/10W 0
RJ703-710	ERJ6GEY0R00V	1/10W 0
		CAPACITORS
C1	ECBT1H180JC5	50V 18P
C2	ECBT1H102KB5	50V 1000P
C3	ECBT1H330J5	50V 33P
C4	ECBT1H102KB5	50V 1000P
C5	ECBT1C103MS5	16V 0.01U
C6, 7	ECBT1H181KB5	50V 180P
C8	ECBT1H102KB5	50V 1000P
C9	ECBT1H4R7KC5	50V 4.7P
C10	ECBT1H2R2KC5	50V 2.2P
C11, 12	ECBT1H102KB5	50V 1000P
C14, 15	ECBT1H102KB5	50V 1000P
C18	ECBT1H150JC5	50V 15P
C20	ECFR1C473MR	16V 0.047U
C23	ECEA1HN010	50V 1U
C24	ECBT1C103MS5	16V 0.01U
C25	ECFR1C223MR	16V 0.022U
C26	ECEA1CU101	16V 100U
C27	ECBT1C103MS5	16V 0.01U
C29	ECEA1HU010	50V 1U
C30	ECBT1H270J5	50V 27P
C31	ECEA1AU470	10V 47U
C32	ECFR1C223MR	16V 0.022U
C33, 34	ECEA1CU100	16V 10U
C35	ECFR1C223MR	16V 0.022U
C36	ECBT1H331KB5	50V 330P

Ref. No.	Part No.	Values & Remarks
C37	ECFR1C683MR	16V 0.068U
C38, 39	ECFR1C823MR	16V 0.082U
C40, 41	ECFR1C123MR	16V 0.012U
C44	ECBT1H330J5	50V 33P
C45	ECFR1C223MR	16V 0.022U
C46	ECEA0JU101B	6.3V 100U
C47	ECFR1C473MR	16V 0.047U
C48	ECEA1CU100	16V 10U
C49	ECBT1H270J5	50V 27P
C50	ECBT1H300J5	50V 30P
C51	ECBT1H102KB5	50V 1000P
C52	ECEA1EU3R3	25V 3.3U
C53	ECEA1HU010	50V 1U
C62	ECFR1C223MR	16V 0.022U
C65	ECFR1C103MR	16V 0.01U
C66	ECBT1H102KB5	50V 1000P
C67	ECBT1C103MS5	16V 0.01U
C69	ECBT1C332MR5	16V 3300P
C71, 72	ECBT1H102KB5	50V 1000P
C74	ECBT1H470J5	50V 47P
C78	ECBT1H331KB5	50V 330P
C80	ECBT1C103MS5	16V 0.01U
C101	ECBT1H102KB5	50V 1000P
C104	ECFR1C333JR	16V 0.033U
C105, 106	ECBT1H471KB5	50V 470P
C107	ECFR1C183KR	16V 0.018U
C108	ECEA1HK010B	50V 1U
C109	ECEA1EK4R7	25V 4.7U
C110	ECEA1HK010B	50V 1U
C111	ECBT1H151KB5	50V 150P
C112	ECFR1C473MR	16V 0.047U
C113	ECEA1HK010B	50V 1U
C115	ECBT1H151KB5	50V 150P
C116	ECBT1H221KB5	50V 220P
C117	ECEA1EK4R7	25V 4.7U
C118	ECBT1H102KB5	50V 1000P
C119	ECBT1C332MR5	16V 3300P
C124	ECEA0JU221BG	6.3V 220U
C201	ECBT1H102KB5	50V 1000P
C204	ECFR1C333JR	16V 0.033U
C205, 206	ECBT1H471KB5	50V 470P
C207	ECFR1C183KR	16V 0.018U
C208	ECEA1HK010B	50V 1U
C209	ECEA1EK4R7	25V 4.7U
C210	ECEA1HK010B	50V 1U
C211	ECBT1H151KB5	50V 150P
C212	ECFR1C473MR	16V 0.047U
C213	ECEA1HK010B	50V 1U
C215	ECBT1H151KB5	50V 150P
C216	ECBT1H221KB5	50V 220P
C217	ECEA1EK4R7	25V 4.7U
C218	ECBT1H102KB5	50V 1000P
C219	ECBT1C332MR5	16V 3300P
C224	ECEA0JU221BG	6.3V 220U
C301	ECBT1C103MS5	16V 0.01U
C302	ECQV1H474JZ3	50V 0.47U
C303	ECQP2A182JZT	1800P
C306	ECQP2A472JZT	4700P
C307	ECEA1HU010BG	50V 1U
C308	ECQV1H473JZ3	50V 0.047U
C309	ECEA1AU101BG	10V 100U
C310, 311	ECBT1H102KB5	50V 1000P
C312, 313	ECFR1C103KR	16V 0.01U
C314	ECEA0JKS101B	6.3V 100U
C315	ECEA1AU330BG	10V 33U
C316	ECEA1AU101BG	10V 100U
C318	ECEA1CK100B	16V 10U
C319	ECEA1HK0R1	50V 0.1U
C320	ECFR1C223MR	16V 0.022U
C321	ECEA1HK010B	50V 1U
C322	ECEA1CU101BG	16V 100U
C323	ECBT1C103MS5	16V 0.01U
C328	ECFR1C223MR	16V 0.022U
C329	ECEA0JU221BG	6.3V 220U
C331	ECBT1H104ZF5	50V 0.1U
C332	ECEA1AU330BG	10V 33U
C333	ECEA1HK0R1	50V 0.1U
C335	ECEA0JU470BG	6.3V 47U
C336, 337	ECBA1H681KB5	50V 680P
C401	ECBT1H101KB5	50V 100P
C402, 403	ECEA1HK010B	50V 1U
C404	ECFR1C103MR	16V 0.01U
C405	ECBT1H102KB5	50V 1000P
C406	ECEA1HKR22B	50V 0.22U
C407	ECFR1C683MR	16V 0.068U
C409	ECFR1C223MR	16V 0.022U
C410	ECEA1HK010B	50V 1U
C411	ECEA1AU222E	10V 2200U
C412, 413	ECEA1AU101	10V 100U
C414	ECEA1HK010B	50V 1U
C415	ECBT1H471KB5	50V 470P
C416	ECQM1H224JZ	50V 0.22U
C417	ECEA1HK010B	50V 1U
C418	ECBT1H102KB5	50V 1000P
C501	ECBT1H101KB5	50V 100P
C502, 503	ECEA1HK010B	50V 1U
C504	ECFR1C103MR	16V 0.01U
C505	ECBT1H102KB5	50V 1000P
C506	ECEA1HKR22B	50V 0.22U
C507	ECFR1C683MR	16V 0.068U
C509	ECFR1C223MR	16V 0.022U
C510	ECEA1HK010B	50V 1U
C511	ECEA1AU222E	10V 2200U
C512, 513	ECEA1AU101	10V 100U
C514	ECEA1HK010B	50V 1U
C515	ECBT1H471KB5	50V 470P
C516	ECQM1H224JZ	50V 0.22U
C517	ECEA1HK010B	50V 1U
C518	ECBT1H102KB5	50V 1000P
C600-602	ECBA1H681KB5	50V 680P
C603	ECEA1HK2R2B	50V 2.2U
C605	ECEA1HK010B	50V 1U
C607	ECEA1EK100	25V 10U
C608	ECBT1H102KB5	50V 1000P
C609	ECEA1EK4R7	25V 4.7U
C610	ECBT1H102KB5	50V 1000P
C612, 613	ECBT1H300J5	50V 30P
C614	ECBT1H120JC5	50V 12P
C615	ECBT1H220JC5	50V 22P
C616	ECEA0JK221B	6.3V 220U
C617	ECEA1HKS2R2	50V 2.2U
C618, 619	ECBT1C103MS5	16V 0.01U
C620, 621	ECBT1H102KB5	50V 1000P
C622, 623	ECEA1AU101	10V 100U
C625	ECEA1AU101	10V 100U
C626	ECBT1H101KB5	50V 100P
C627	ECEA1EK100	25V 10U
C628	ECEA1CK220	16V 22U
C629, 630	ECEA1AU101	10V 100U
C631-633	ECEA1EK4R7	25V 4.7U
C634	ECEA1AU471	10V 470U
C635	ECBT1C103MS5	16V 0.01U
C636	ECEA1AU471	10V 470U
C637	ECEA1EU221	25V 220U
C638	ECEA1EU472	25V 4700U
C639	ECEA1EK100	25V 10U
C640	ECEA0JU471	6.3V 470U
C641	ECEA1CU470	16V 47U
C642	ECBT1C103MS5	16V 0.01U
C643	ECEA1AK330B	10V 33U
C644	ECBT1C103MS5	16V 0.01U
C649, 650	ECBT1C103MS5	16V 0.01U
C651	ECEA0JK470	6.3V 47U
C653-656	ECBT1H102KB5	50V 1000P
C658	ECBT1C103MS5	16V 0.01U
C659	ECBT1H102KB5	50V 1000P
C660-662	ECBT1H471KB5	50V 470P
C664-666	ECBT1H102KB5	50V 1000P
C671	ECBT1H102KB5	50V 1000P
C701	ECEA0JKA220	6.3V 22U
C702	ECEA0JKS470	6.3V 47U
C703	ECEA0JKS101I	6.3V 100U
C709	ECUZ1C224KBM	16V 0.22U
C710	ECUZ1C104MBM	16V 0.1U
C711	ECUW1E103MBN	25V 0.01U
C713	ECEA1CSN4R7I	16V 4.7U

Ref. No.	Part No.	Values & Remarks
C714	ECEA1HKS010	50V 1U
C715	ECUE1H472KBN	50V 4700P
C716	ECUE1C473KBN	16V 0.047U
C717	ECUE1H681KBN	50V 680P
C718	ECEA1AKS101I	10V 100U
C719	ECUW1E103MBN	25V 0.01U
C720	ECUE1E153MBN	25V 0.015U
C721	ECUW1E103MBN	25V 0.01U
C722	ECEA0JKS470	6.3V 47U
C723	ECUZ1C104MBM	16V 0.1U
C724	ECUV1E333MBN	25V 0.033U
C725	ECUW1E103MBN	25V 0.01U
C726	ECUE1H471KBN	50V 470P
C727	ECEA0JKS470	6.3V 47U
C728, 729	ECUZ1C104MBM	16V 0.1U
C730	ECUZ1C224KBM	16V 0.22U
C731	ECEA0JKS331I	6.3V 330U
C732	ECUE1H102MBN	50V 1000P
C733	ECEA0JKS101I	6.3V 100U
C734	ECUE1E223MBN	25V 0.022U
C735	ECUZ1C224KBM	16V 0.22U
C737	ECUZ1C224KBM	16V 0.22U
C738	ECEA0JKS101I	6.3V 100U
C739	ECUW1E103MBN	25V 0.01U
C740	ECUE1H472MBN	50V 4700P
C741	ECUZ1C224KBM	16V 0.22U
C742	ECUZ1C104MBM	16V 0.1U
C743	ECEA0JKS331I	6.3V 330U
C744, 745	ECUE1H102KBN	50V 1000P
C746	ECEA0JKS101I	6.3V 100U
C747	ECUZ1C104MBM	16V 0.1U
C748	ECEA1HKS010	50V 1U
C749	ECUW1E103MBN	25V 0.01U
C750	ECUE1H050DCN	50V 5P
C751	ECUZ1C224KBM	16V 0.22U
C752	ECUZ1C104MBM	16V 0.1U
C753, 754	ECEA1HKS010	50V 1U
C755	ECUZ1C104MBM	16V 0.1U
C756, 757	ECUE1H050DCN	50V 5P
C758	ECUZ1C224KBM	16V 0.22U
C763	ECUW1E103MBN	25V 0.01U
C764	ECUE1H331KBN	50V 330P
C901-904	ECKR1H103ZF5	50V 0.01U
C951	ECBT1H101KB5	50V 100P
C971	ECBT1H101KB5	50V 100P

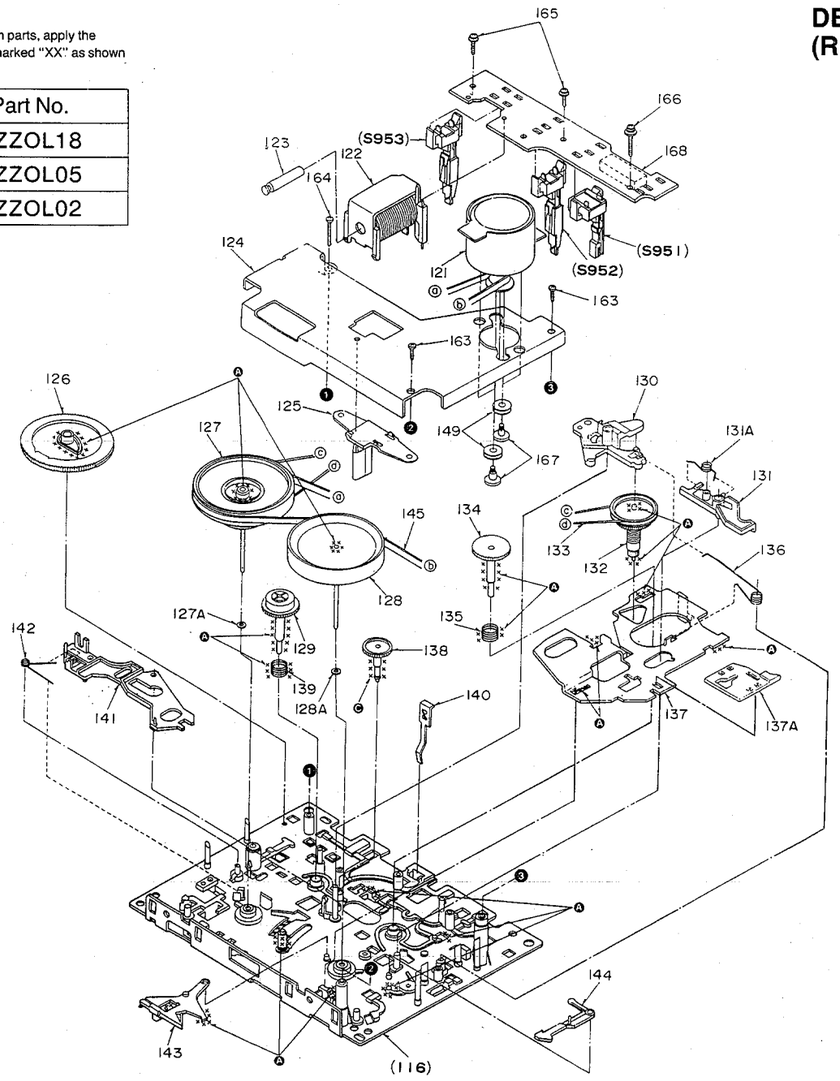
■ MECHANISM PARTS LOCATION

DECK 1 (PLAYBACK)

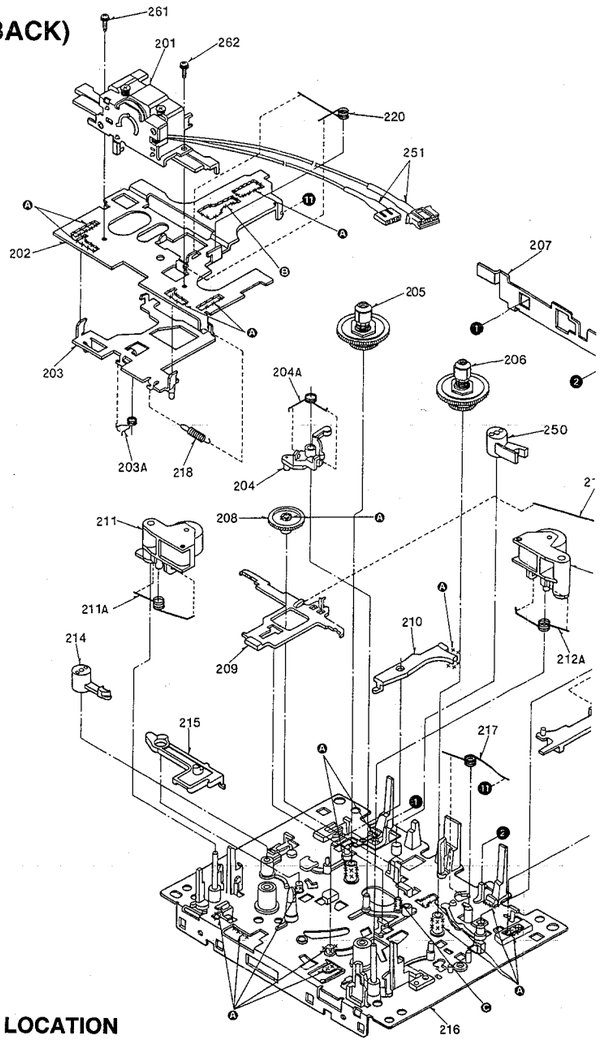


Note:
When changing mechanism parts, apply the specified grease to areas marked "XX" as shown in the drawing.

Mark	Part No.
Ⓐ	SZZOL18
Ⓑ	SZZOL05
Ⓒ	RZZOL02

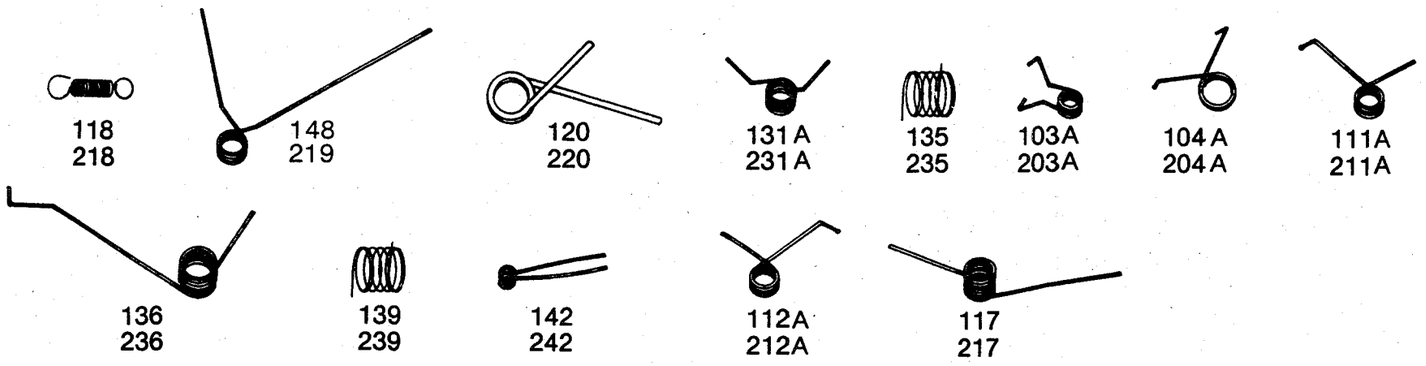


DECK 2 (REC/PLAYBACK)

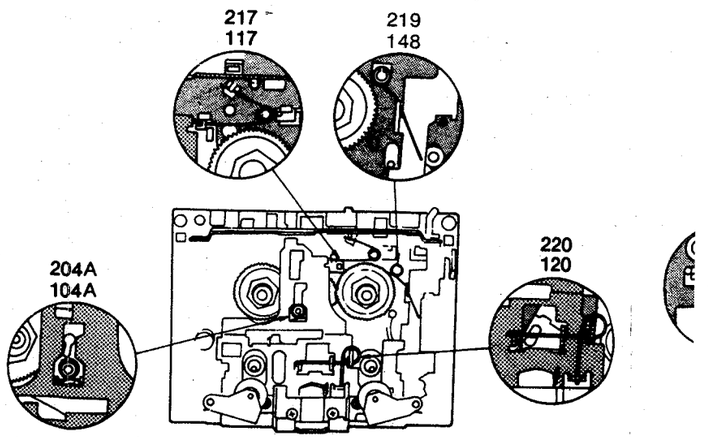


■ SPRING ILLUSTRATION

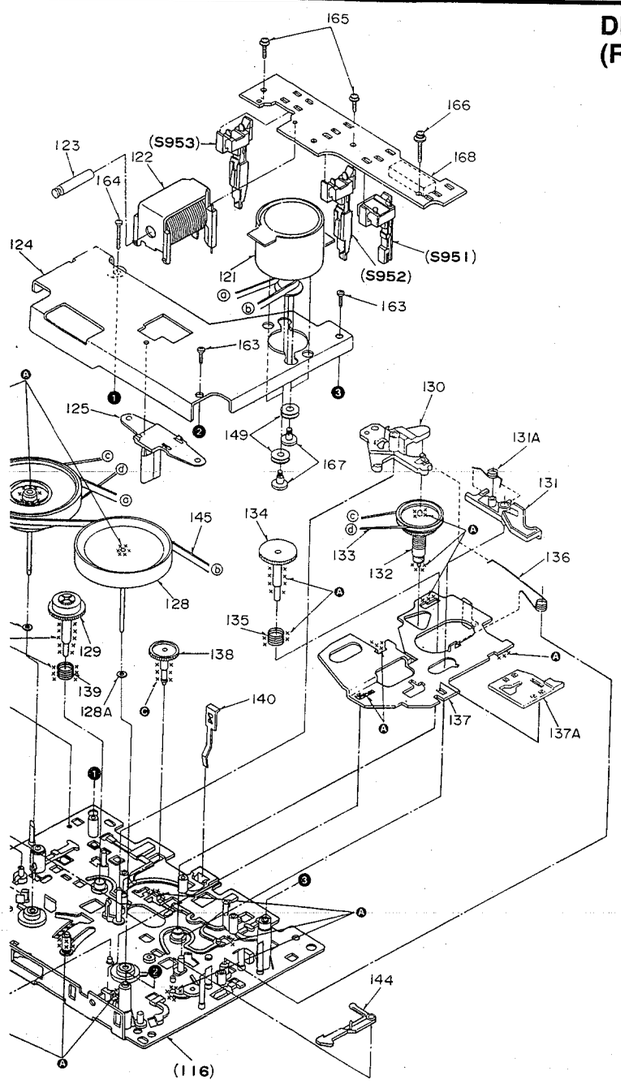
The spring illustration used shows the actual size so it can be used to check the shape of the spring.
(The illustration shows the spring separated from the mechanism.)

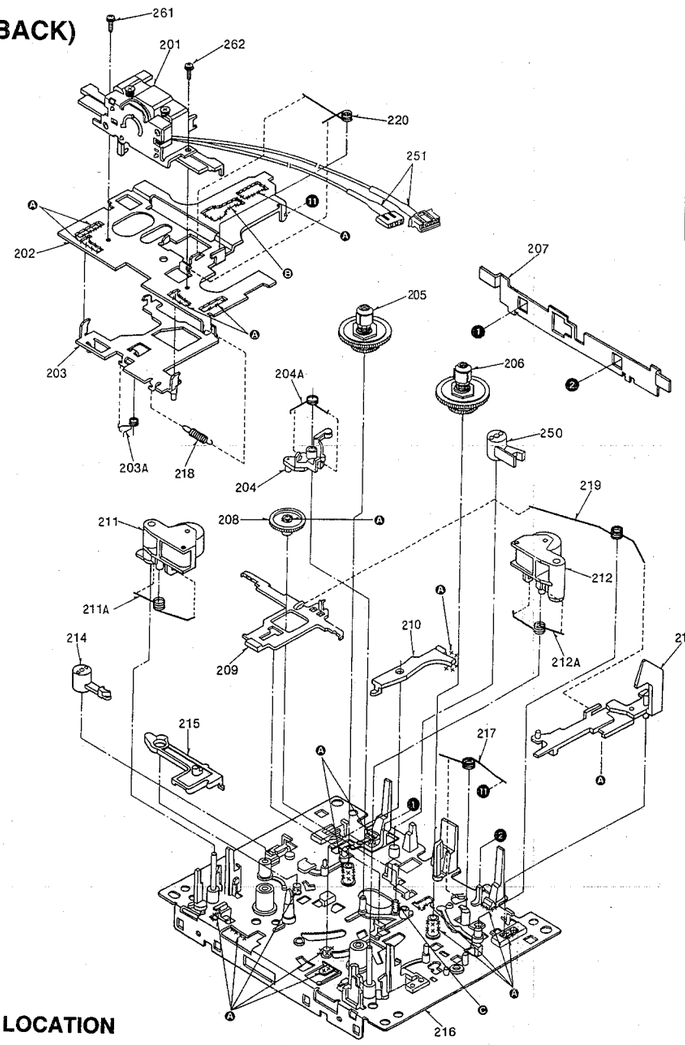


■ SPRING LOCATION



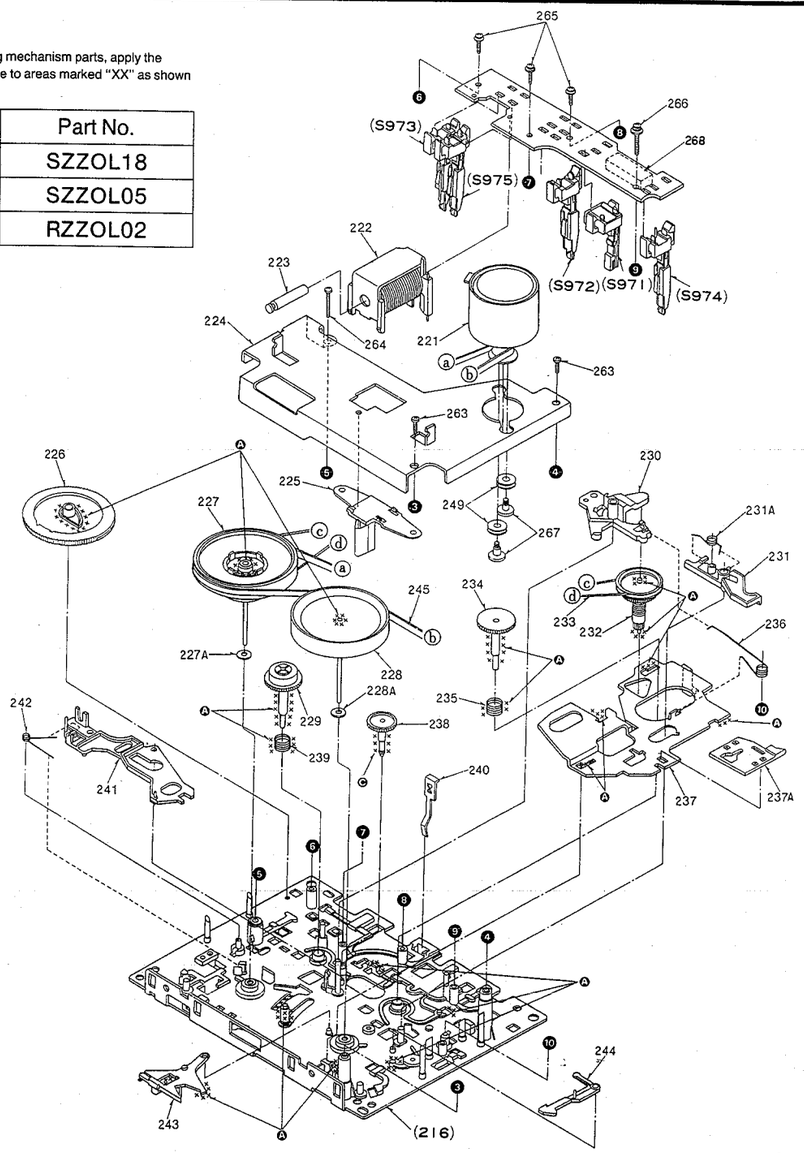
DECK 2 (REC/PLAYBACK)



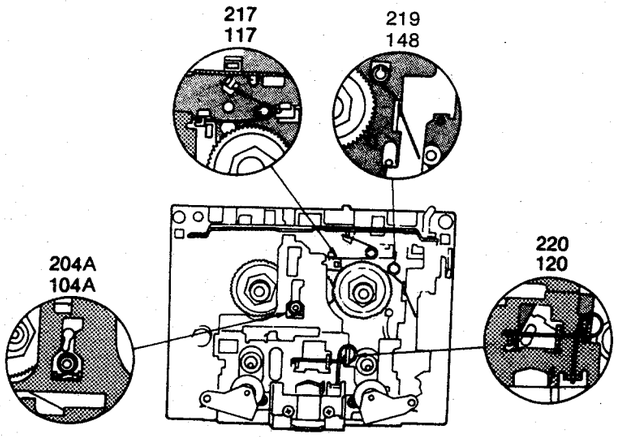


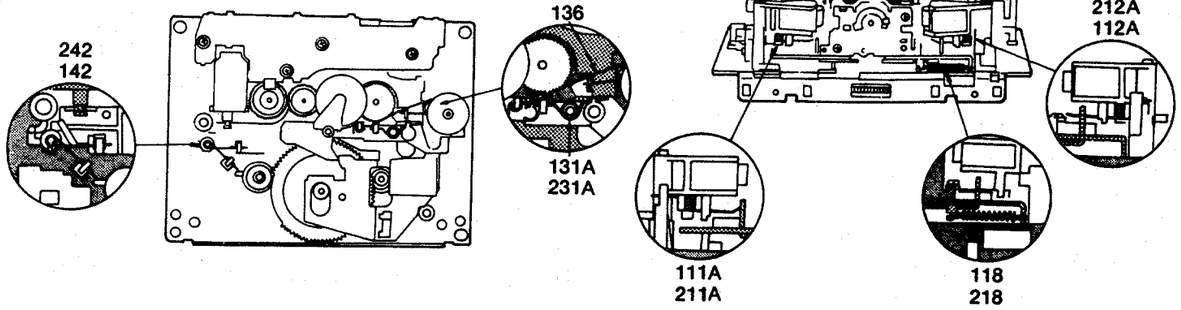
Note:
When changing mechanism parts, apply the specified grease to areas marked "XX" as shown in the drawing.

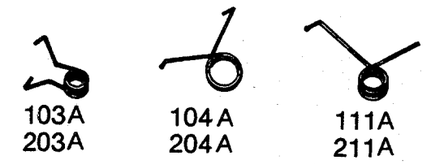
Mark	Part No.
Ⓐ	SZZOL18
Ⓑ	SZZOL05
Ⓒ	RZZOL02



■ SPRING LOCATION





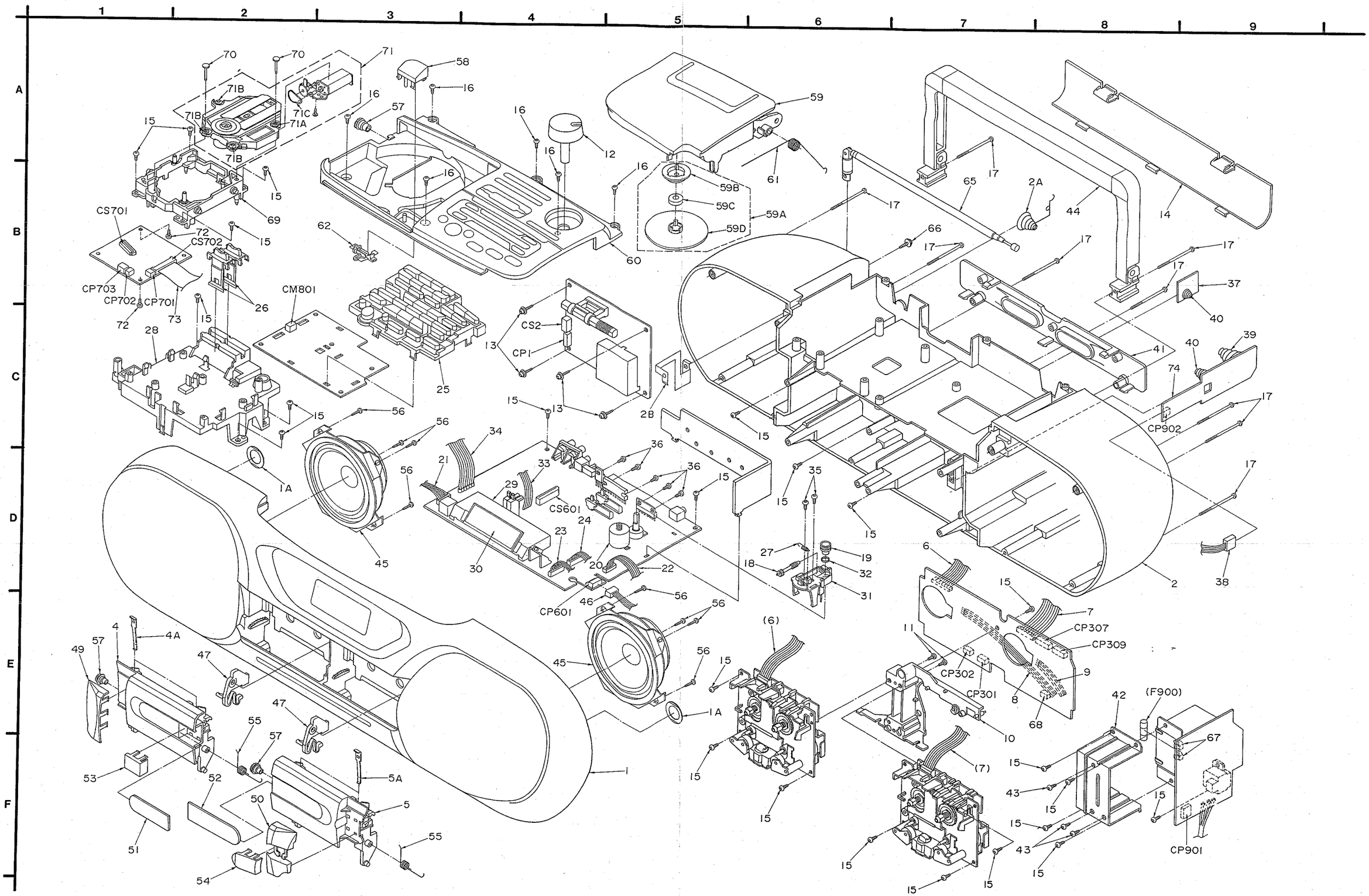


Ref. No.	Part No.	Part Name & Description	Remarks
		MECHANISM PARTS	
		DECK1(P. B)	
101	RXQ0051	HEAD ASS'Y	
102	RUA793ZF	CHASSIS	
103	RZLAR300A	LEVER ASS'Y	
103A	RUW143ZA	SPRING	
104	1UB0089Z	ARM	
104A	RUW148ZA	SPRING	
105	1DM0018ZB	REEL TABLE ASS'Y	
106	1DM0017ZB	REEL TABLE ASS'Y	
107	RML0069-1	LEVER	
108	RDG5772ZC	GEAR	
109	RUB508ZB	LEVER	
110	RUB506ZB	LEVER	
111	1UB0088ZB	PINCH ROLLER	
111A	RUW141ZA	SPRING	
112	1UB0087ZB	PINCH ROLLER	
112A	RUW140ZB	SPRING	
114	RNL1ZD	ARM	
115	RUB503ZD	LEVER	
116	RZUAR300A	CHASSIS ASS'Y	
117	RUW142ZA	SPRING	
118	RUD105ZA	SPRING	
120	RUW139ZA	SPRING	
121	RFM133ZA	MOTOR ASS'Y	
122	1UE0015ZB	RLUNGER	
123	RUB428ZE	SHAFT	
124	RUL1030YA	PLATE	
125	RMD5014ZC	SPACER	
126	RDG5927ZG	GEAR	
127	1DW0037ZB	FLYWHEEL ASS'Y	
127A	RNW139ZA	WASHER	
128	1DW0038ZB	FLYWHEEL ASS'Y	
128A	RNW138ZA	WASHER	
129	1DG0006ZB	GEAR ASS'Y	
130	RUB513ZD	LEVER	
131	1UB0091Z	LEVER	
131A	RUW146ZA	SPRING	
132	1DR0011ZB	PULLEY ASS'Y	
133	RDV90ZB	BELT	
134	RDG5769ZA	GEAR	
135	RUQ111ZB	SPRING	
136	RUW145ZA	SPRING	
137	1UB0090ZA	ROD	
137A	RUB512ZB	ROD	
138	RDG5773ZB	GEAR	
139	RUQ112ZA	SPRING	
140	RUS609ZC	SPRING	
141	RUB514ZC	LEVER	
142	RUW147ZA	SPRING	

Ref. No.	Part No.	Part Name & Description	Remarks
143	RUB515ZA	LEVER	
144	RUB509ZA	LEVER	
145	RDV108ZA	BELT	
146	RUB507ZD	LEVER	
148	RUW144ZA	SPRING	
149	RHG3032ZA	RUBBER	
150	RNL180ZB	LEVER	
151	REX0074	CABLE ASS'Y	
161	XTW2+6L	SCREW	
162	XTW2+8L	SCREW	
163	XTN26+7J	SCREW	
164	RHE5203ZA	SCREW	
165	XTW2+8S	SCREW	
166	XYC2+JF16	SCREW	
167	RHD26002	SCREW	
168	RJS7T7ZA	CONNECTOR(J951)	
		DECK2(R/P)	
201	RXQ0007	HEAD ASS'Y	
202	RUA793ZF	CHASSIS	
203	RZLAR300A	LEVER ASS'Y	
203A	RUW143ZA	SPRING	
204	1UB0089Z	ARM	
204A	RUW148ZA	SPRING	
205	1DM0018ZB	REEL TABLE ASS'Y	
206	1DM0017ZB	REEL TABLE ASS'Y	
207	RML0069-1	LEVER	
208	RDG5772ZC	GEAR	
209	RUB508ZB	LEVER	
210	RUB506ZB	LEVER	
211	1UB0088ZB	PINCH ROLLER	
211A	RUW141ZA	SPRING	
212	1UB0087ZB	PINCH ROLLER	
212A	RUW140ZB	SPRING	
213	RUB507ZD	LEVER	
214	RNL1ZD	ARM	
215	RUB503ZD	LEVER	
216	RZUAR300A	CHASSIS ASS'Y	
217	RUW142ZA	SPRING	
218	RUD105ZA	SPRING	
219	RUW144ZA	SPRING	
220	RUW139ZA	SPRING	
221	RFM133ZA	MOTOR ASS'Y	
222	1UE0015ZB	PLUNGER	
223	RUB428ZE	SHAFT	
224	RUL1030YA	PLATE	
225	RMD5014ZC	SPACER	
226	RDG5927ZG	GEAR	
227	1DW0037ZB	FLYWHEEL ASS'Y	
227A	RNW139ZA	WASHER	
228	1DW0038ZB	FLYWHEEL ASS'Y	

Ref. No.	Part No.	Part Name & Description	Remarks
228A	RNW138ZA	WASHER	
229	1DG0006ZB	GEAR ASS'Y	
230	RUB513ZD	LEVER	
231	1UB0091Z	LEVER	
231A	RUW146ZA	SPRING	
232	1DR0011ZB	PULLEY ASS'Y	
233	RDV90ZB	BELT	
234	RDG5769ZA	GEAR	
235	RUQ111ZB	SPRING	
236	RUW145ZA	SPRING	
237	1UB0090ZA	ROD	
237A	RUB512ZB	ROD	
238	RDG5773ZA	GEAR	
239	RUQ112ZA	SPRING	
240	RUS609ZC	SPRING	
241	RUB514ZC	LEVER	
242	RUW147ZA	SPRING	
243	RUB515ZA	LEVER	
244	RUB509ZA	LEVER	
245	RDV108ZA	BELT	
249	RHG3032ZA	RUBBER	
250	RNL180ZB	LEVER	
251	REX0062	CABLE ASS'Y	
261	XTW2+6L	SCREW	
262	XTW2+8L	SCREW	
263	XTN26+7J	SCREW	
264	RHE5203ZA	SCREW	
265	XTW2+8S	SCREW	
266	XYC2+JF16	SCREW	
267	RHD26002	SCREW	
268	RJS9T7ZA	SOCKET(J971)	

■ CABINET PARTS LOCATION



Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET PARTS	
1	RFKGXDT55GCK	FRONT CABINET ASS'Y	
1A	RFKNXDT55A-K	TWEETER ASS'Y	
2	RFKHXDT55GCK	REAR CABINET ASS'Y	(GC)
2	RFKHXDT55PXK	REAR CABINET ASS'Y	(PX)
2A	RJC931ZC	TERMINAL, BATTERY(+/-)	
2B	RJR0058	TERMINAL, ANTENNA	
4	RFKLXDT55PAK	CASSETTE LID ASS'Y(L)	
4A	RUS757ZA	SPRING	
4B	RGP0188-Q	PANEL	
5	RFKLXDT55PBK	CASSETTE LID ASS'Y(R)	
5A	RUS757ZA	SPRING	
5B	RGP0189-Q	PANEL	
6	RWJ1107075QQ	FLAT CABLE(W303)	
7	RWJ1110075QQ	FLAT CABLE(W304)	
8	RWJ4704215KR	FLAT CABLE(W305)	
9	RWJ4704105KR	FLAT CABLE(W306)	
10	RMK0059-2	CHASSIS	
11	XTN26+6B	SCREW	
12	RGW0107-K2	KNOB, VOLUME	
13	RHD30006	SCREW	
14	RKK0010-K	BATTERY COVER	
15	XTV3+12G	SCREW	
16	XTN3+12GFZ	SCREW	
17	XTV3+60G	SCREW	
18	RDG5953ZC	GEAR	
19	RDG5954ZA	GEAR	
20	RFM156ZA	MOTOR ASS'Y	
21	REX0289Y	WIRE ASS'Y(CW601)	
22	REX0290	WIRE ASS'Y(W601)	
23	REX0291Y	WIRE ASS'Y(CW602)	
24	REX0292Y	WIRE ASS'Y(CW603)	
25	RGU0507-K	BUTTON	
26	RGV0071-K1	KNOB, S-XBS/TONE	
27	RMB0017-1	SPRING	
28	RMK0117	CHASSIS	
29	RMN0109	HOLDER	
30	RSL5038	LCD (LCD 1)	
31	RUA867ZB	SHASSIS	
32	RUD129XA	SPRING	
33	RWJ4704100KQ	FLAT CABLE(W602)	
34	RWJ1107430RR	FLAT CABLE(W603)	
35	XQN17+C33	SCREW	
36	XTV3+10F	SCREW	
37	RJB0697A	P.C.B	
38	REX0374	WIRE ASS'Y(W901)	
39	RJC511ZB	BATTERY SPRING(-)	
40	RJC751ZA	BATTERY SPRING(-)	
41	RGQ0061-K	COVER	
42	RMA0069-4	ANGLE	

Ref. No.	Part No.	Part Name & Description	Remarks
43	XTV3+6F	SCREW	
44	RYH0006-K	HANDLE ASS'Y	
45	EAS12P450B	SPEAKER	
46	REX0288Y	WIRE ASS'Y	
47	RML0204-1	LEVER	
49	RGK0340-K	ORNAMENT	
50	RGK0341-K	ORNAMENT	
53	RGU0508-K	BUTTON, TAPE EJECT	
54	RGU0509-K	BUTTON, TAPE EJECT	
55	RUW170ZB	SPRING	
56	XTV3+10G	SCREW	
57	RDG5782ZB	GEAR	
58	RGU0510-K	BUTTON, CD EJECT	
59	RFKLXDT55PCK	CD COVER ASS'Y	
59A	RYF0066	DISC HOLDER ASS'Y	
59B	RMQ0152	HOLDER	
59C	RHM245ZA	MAGNET	
59D	RFKNXDT55B-K	DISC HOLDER	
60	RKQ0074A-K	TOP CABINET	
61	RME0025-2	SPRING	
62	RML0114	LEVER	
65	XEARR225CA-Y	TELESCOPIC ANTENNA	
66	XYN3+F12FY	SCREW	
67 ⚠	EYF52BC	FUSE HOLDER(FH901, 902)	
68	RJP3G1ZA	PLUG(TP1)	
69	RMK0105	CHASSIS	
70	RMS0123-1	SHAFT	
71	SODD110Z	TRAVERSE ASS'Y	
71A	SHGD112	RUBBER A	
71B	SHGD113-1	RUBBER B	
71C	RDV0014	BELT	
72	XTV26+6G	SCREW	
73	REE0265-1	FLEXIBLE CABLE	
		PACKING MATERIALS	
P1	RPK0255	GIFT BOX	(GC)
P1	RPK0252	GIFT BOX	(PX)
P2	RPN0439	PAD	
P3	RPH653ZA	SHEET	
		ACCESORIES	
A1	RAK-RX314W	REMOTE CONTROLLER	
A1A	RKK0020-H	BATTERY COVER	
A2	RQT0944-G	INSTRUCTION MANUAL	(GC)
A2	RQT0942-P	INSTRUCTION MANUAL	(PX)
A3 ⚠	RJA0013-K	POWER CORD AC	
A4 ⚠	RJP120ZDS-K	AC PLUG ADAPTER	

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